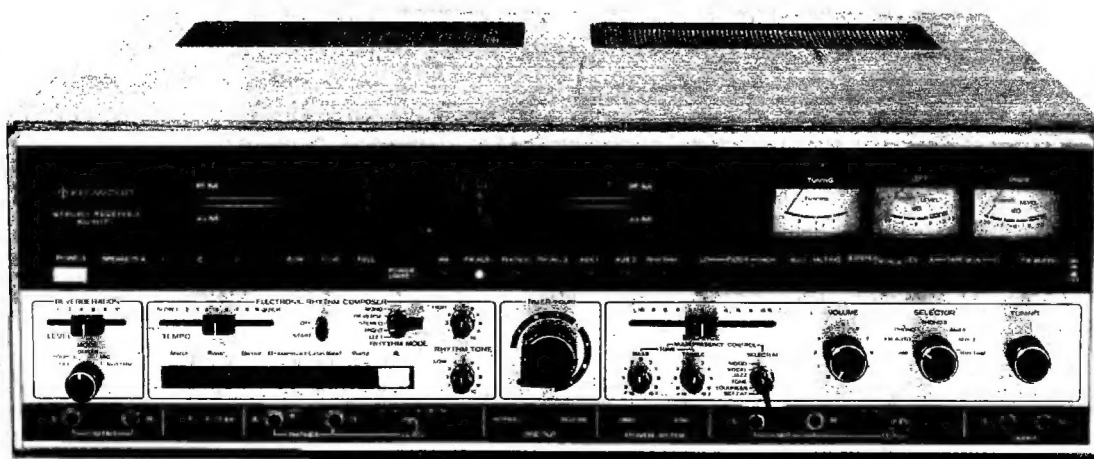


**KENWOOD**  
HI/FI STEREO COMPONENTS

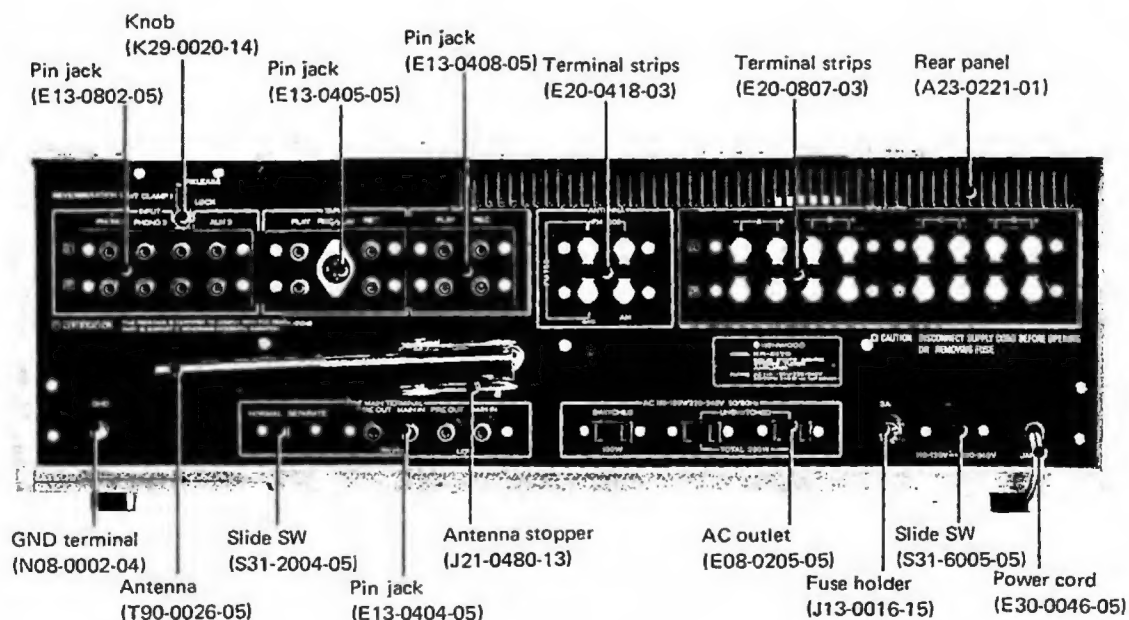
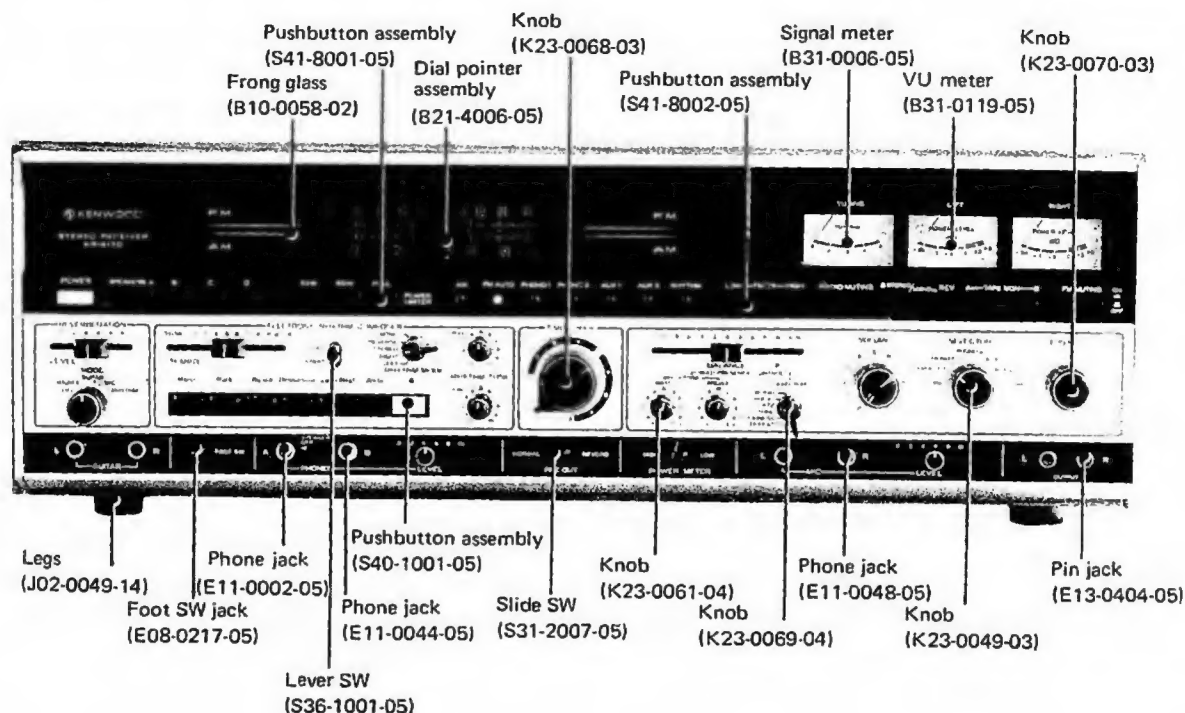
# SERVICE MANUAL

## KR-6170

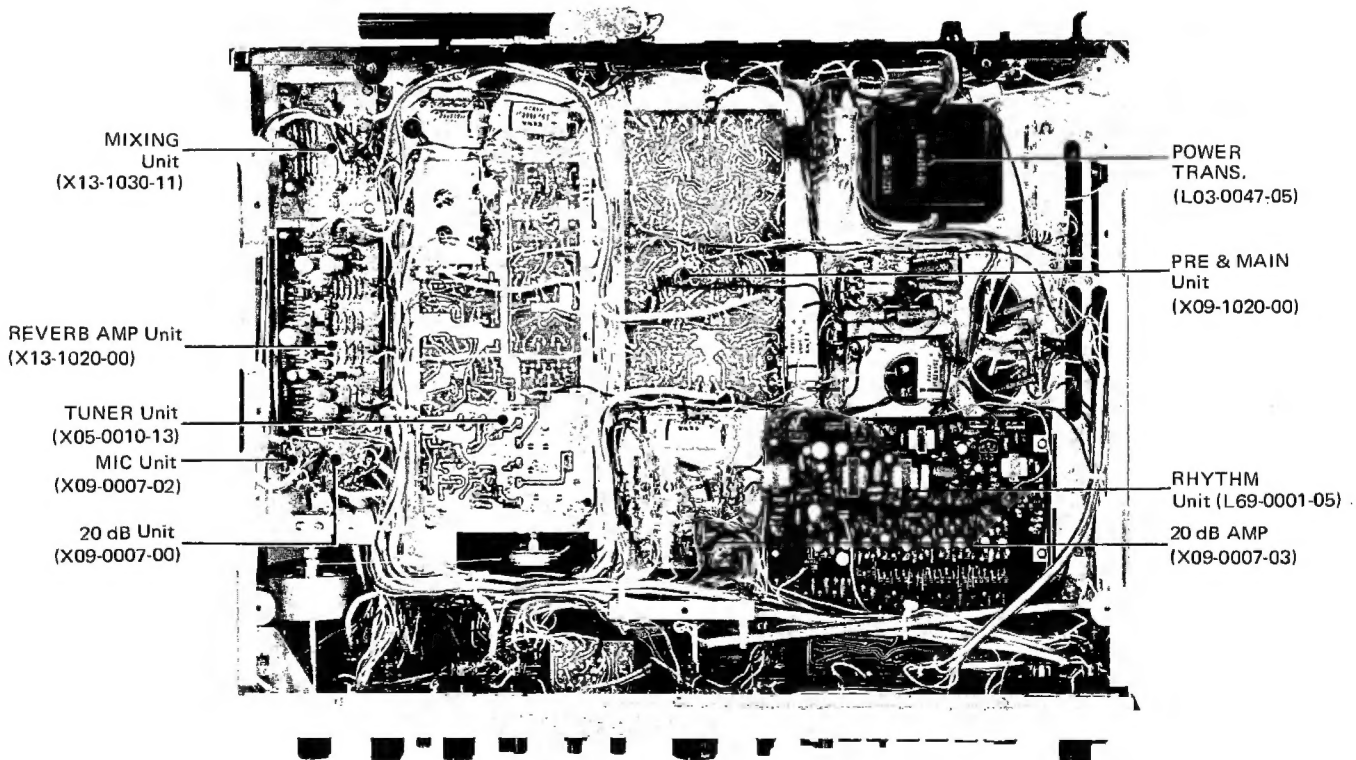
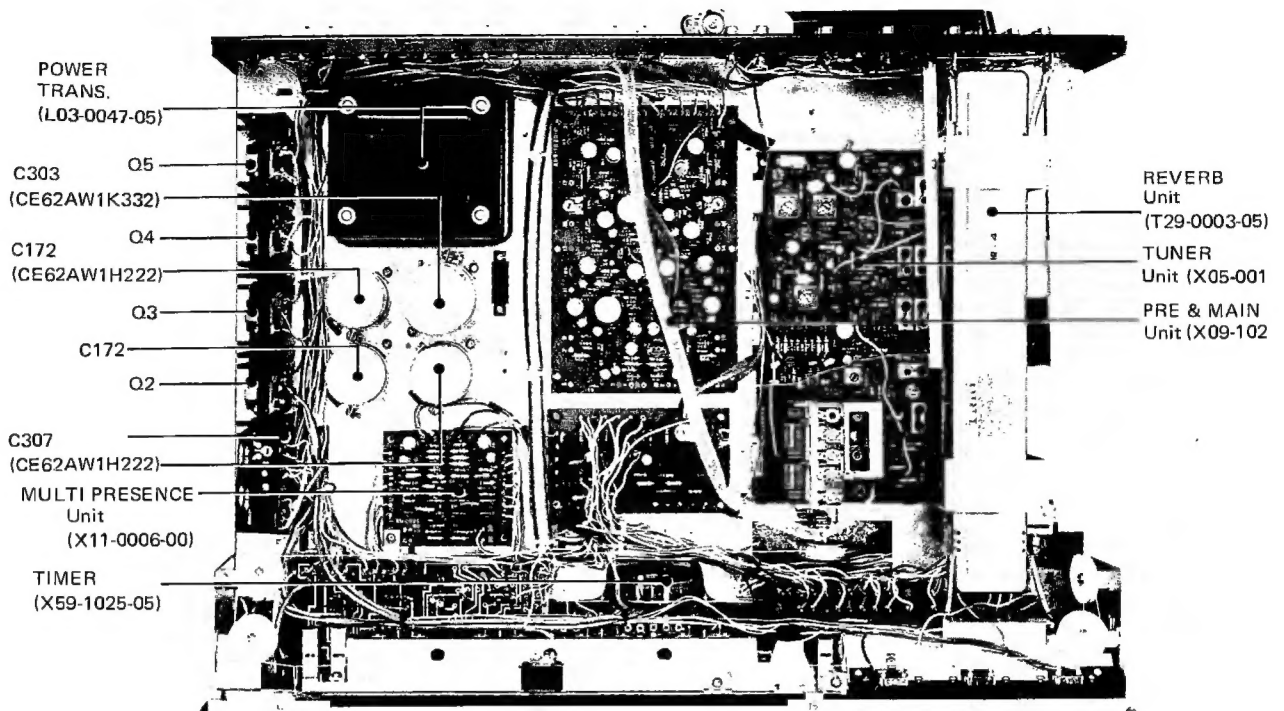


**SOLID STATE AM-FM STEREO RECEIVER  
WITH ELECTRONIC RHYTHM COMPOSER**

# ● EXTERNAL VIEW



# ● TOP & BOTTOM CHASSIS VIEW





# ● ADJUSTMENT

## ■ FM-RF/IF ADJUSTMENT

STEP	ALIG.	FM SSG/SWEEP G.		TUNING DIAL SETTING	VTVM or SCOPE COUPLING	ADJUST	CHECK
		COUPLING	SIGNAL				
1	IF trans.	*FM antenna terminal or TEST POINT (A)	10.7MHz (Unmod.)	Any non-interfering setting	SCOPE to the TEST POINT (B)	(X05-0010-13) Ta3, 5 Prim. & Sec.	Maximum amplitude and symmetry with 10.7MHz marker centered on the response.
2	IF trans.	*FM antenna terminal or TEST POINT (A)	10.7MHz (Unmod.)	Any non-interfering setting	SCOPE to the TEST POINT (C)	(X05-0010-13) Ta6 Prim. & Sec.	Maximum amplitude and symmetry with 10.7MHz marker centered on the response.
Check the MUTING SW to the OFF and emitter voltage of transistor Qa6 to be more 1.9V. If voltage does not appear disconnect the wire of "C" terminal in X05-0010-13. And then connect the resistor 560Ω to the capacitor Ca38 in parallel.							
3	IF trans.	*FM antenna terminal or TEST POINT (A)	10.7MHz (Unmod.)	Any non-interfering setting	SCOPE to the TEST POINT (D)	(X05-0010-13) Ta7 Prim. & Sec.	Maximum amplitude and symmetry with 10.7MHz marker centered on the response
4	DISCRIMINATOR	*FM antenna terminal or TEST POINT (A)	98MHz 400Hz (Mod.) 75kHz (Dev.) 0.5~1mV	Tune for maximum using tuning indicator	SCOPE to the recording jack	(X05-0010-13) Ta8 Prim. & Sec.	S-response and its symmetry on each side of 10.7MHz center frequency.
5	RF	FM antenna terminal	90MHz 400Hz (Mod.) 75kHz (Dev.) 1.5~2μV	90MHz	VTVM to the recording jack	(X05-0010-13) Ta4	Turn it to receive the SSG freq.
6	RF	FM antenna terminal	90MHz 400Hz (Mod.) 75kHz (Dev.) 1.5~2μV	90MHz	VTVM to the recording jack	(X05-0010-13) Ta1, 2	Adjust the sensitivity to be maximum.
7	RF	FM antenna terminal	106MHz 400Hz (Mod.) 75kHz (Dev.) 1.5~2μV	106MHz	VTVM to the recording jack	(X05-0010-13) CTa3	Turn it to receive the SSG freq.
8	RF	FM antenna terminal	106MHz 400Hz (Mod.) 75kHz (Dev.) 1.5~2μV	106MHz	VTVM to the recording jack	(X05-0010-13) CTa1, 2	Adjust sensitivity to the maximum
9	Repeat steps 5 ~ 8 until no further improvement is possible.						
10	METER	FM antenna terminal	98MHz 400Hz (Mod.) 75kHz (Dev.) 1mV	Tune for maximum using tuning indicator	—	(X05-0010-13) VRa1	"4" indicates
11	OUT	FM antenna terminal	98MHz 400Hz (Mod.) 75kHz (Dev.) 1mV	Tune for maximum using tuning indicator	VTVM to the recording jack	(X05-0010-13) VRa2	Adjust the output to be 1V
* If can't see the waveform on the scope, move the sweep generator to the TEST POINT (A). A across the antenna terminal in series with a capacitor 5 ~ 10pF.							

# ● ADJUSTMENT

## ■ SCA FILTER ADJUSTMENT

STEP	AUDIO SIGNAL GENERATOR COUPLING	AUDIO SIGNAL GENERATOR FREQ.	AC VTVM & SCOPE COUPLING	ADJUST	CHECK
1	TEST POINT (E)	67kHz 1V	TEST POINT (F)	(X05-0010-13) Ta15	Minimum deflection

## ■ MPX ADJUSTMENT

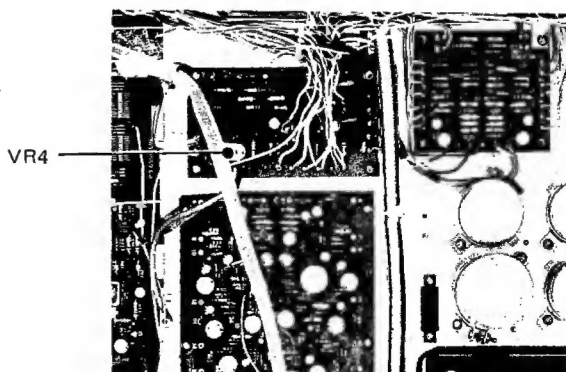
STEP	COUPLING	FM SSG MOD. FREQ.	SELECTOR	19kHz PILOT	VTVM & SCOPE COUPLING	ADJUST	CHECK
1	FM antenna terminal	98MHz 400Hz (Mod.) 67.5kHz (Dev.) 1mV	NORMAL or REVERSE	ON	OFF	(X05-0010-13) VRa4, VRa5	"STEREO" indicator illuminate
2	FM antenna terminal	98MHz 400Hz (Mod.) 67.5kHz (Dev.) 1mV	REVERSE	ON	Recording jack	(X05-0010-13) Ta13, Ta14	With Ta13 increase the output to be max. and with Ta14 make the best waveform.
3	FM antenna terminal	98MHz 400Hz (Mod.) 40kHz (Dev.)	NORMAL	ON	Recording jack	(X05-0010-13) VRa5	Adjust the variable resistor until the indicator goes out and bring them back to the point where they are turned on again.
4	FM antenna terminal	98MHz 400Hz (Mod.) 67.5kHz (Dev.) 10μV	NORMAL	ON	Recording jack	(X05-0010-13) VRa4	
5	FM antenna terminal	98MHz 400Hz (Mod.) 67.5kHz (Dev.) 1mV	LEFT	ON	Recording jack of RIGHT	(X09-1020-00) VRe3	Minimum RIGHT output.
6	FM antenna terminal	98MHz 400Hz (Mod.) 67.5kHz (Dev.) 1mV	RIGHT	ON	Recording jack of LEFT	(X09-1020-00) VRe3	Minimum LEFT output.

\* As can't get the same value, set the variable resistor to the point taking the average.

## ■ MUTING ADJUSTMENT

Coupling the SSG to the antenna terminal, setting MUTING SW to be OFF, and VTVM to recording jack. As supply the signal (98MHz, modulation at 400Hz, deviation of 75kHz, input 1mV) to the set VTVM indicates 1V. Next set the MUTING SW to ON and adjust the variable resistor VR4 (50kΩ) so that VTVM indicates 0.5 ~ 0.7V.

More check whether AM broadcast is received or not. If not, check whether base voltage of transistor Q1 is supplied more 0.6V or not.



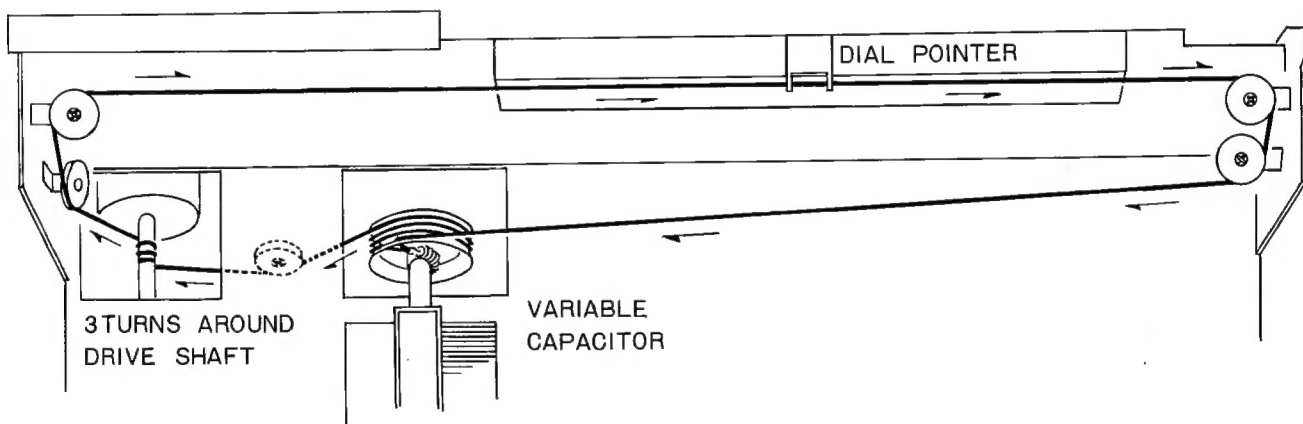
TOP CHASSIS VIEW

# ● ADJUSTMENT

## ■ AM ADJUSTMENT

STEP	ALIGN	SSG		TUNING DIAL SETTING	VTVM & OSC COUPLING	ADJUST	CHECK
		COUPLING	SIGNAL				
1	IF Trans.	AM antenna terminal	455kHz	Any non-interfering	Recording jack	X05-0010-13 Ta10	Maximum amplitude and symmetry with 455kHz marker centered on response
2	IF Trans.	AM antenna terminal	455kHz	Any non-interfering	Recording jack	X05-0010-13 Ta11	Maximum amplitude and symmetry with 455kHz marker centered on response
3	IF Trans.	AM antenna terminal	455kHz	Any non-interfering	Recording jack	X05-0010-13 Ta12	Maximum amplitude and symmetry with 455kHz marker centered on response
4	RF	AM antenna terminal	600kHz 400Hz (30% Mod.) 1mV	600kHz	Recording jack	X05-0010-13 Ta9, Loopstick antenna	With Ta9 correspond to SSG freq. With Loopstick antenna the sensitivity to be maximum.
5	RF	AM antenna terminal	1,400kHz 400Hz (30% Mod.)	1,400kHz	Recording jack	X05-0010-13 CTa4	With CTa4 correspond to SSG freq.
* Repeat steps 4, 5 until no further improvement is possible.							
6	METER	AM antenna terminal	1000kHz 400Hz (30% Mod.)	1000kHz	Recording jack	X05-0010-13 VRa3	"4" indicates

## ■ DIAL CORD STRINGING



# ● ADJUSTMENT

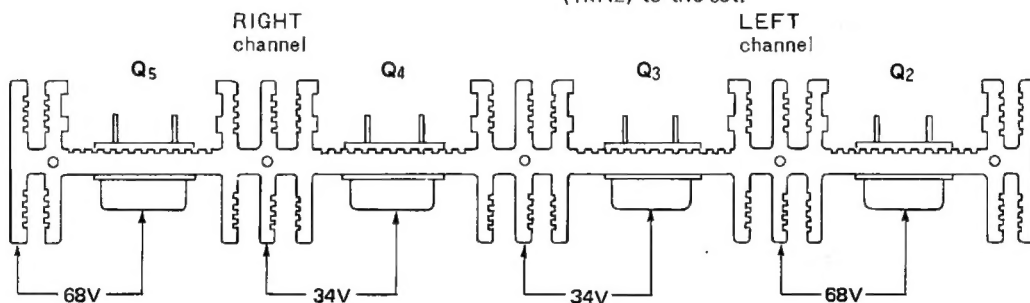
## ■ TESTING PROCEDURES

Perform the test according to the following procedures.

1. Using a tester, measure the voltage between the chassis and collector of the power transistor Q2 or Q5. If a tester indicates approximately 68V, it is normal.
2. Also measure the voltage between the chassis and collector of the power transistor Q3 or Q4. If a tester indicates approximately 34V, it is normal.

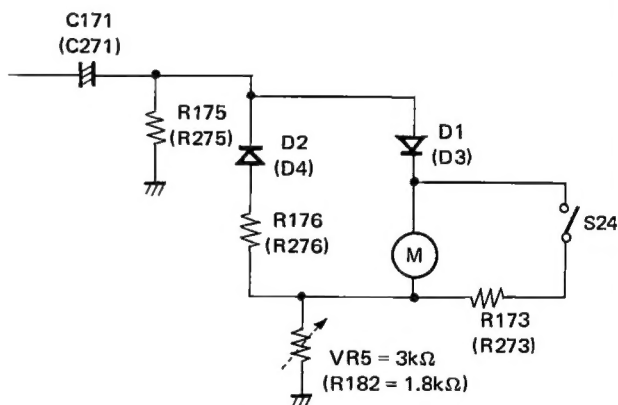
## ■ IDLING CURRENT

1. Connect the dummy load ( $8\Omega$ , 80 watts) to the output terminal.
2. Connect the audio generator to the main unit. Oscilloscope and AC VTVM are connected across the dummy.
3. Before checking the idling current, turn on power switch in a few minutes, adjust the variable resistor (VR<sub>E1, 2</sub>) so that tester (or DC VTVM) coupling to the collector of transistors indicates 30mA. And also check the waveform to be correct feeding the signal (1kHz) to the set.



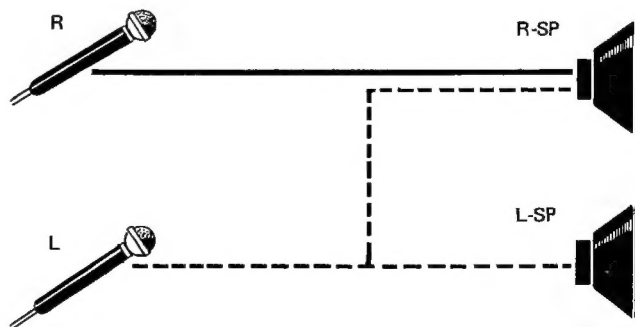
## ■ ON METER SETTING

As supply the signal (1kHz, 100mV) to the MAIN-IN jack, setting POWER LIMITER at FULL, PRE-MAIN SEPARATE SW at SEPARATE, right meter indicates around the 0VU. And then adjust the PC trimmer potentiometer VR5 ( $3k\Omega$ ) so that left meter indicates the 0VU as well as right.



## ■ ON MIC JACK

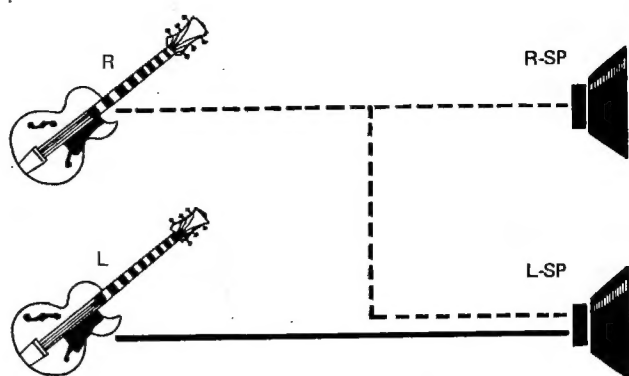
As plug the MIC jack in MIC-L speakers work as monophonic. And then the MIC jack in MIC-R only right speaker does. Next plug MIC jacks in MIC-R and MIC-L each speakers work as stereophonic.



# ● ADJUSTMENT

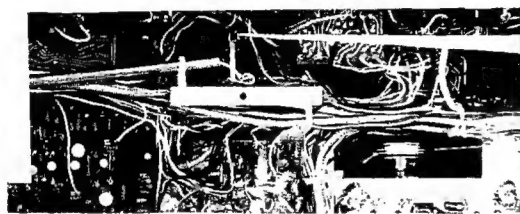
## ■ ON GUITAR JACK

As plug the GUITAR jack in GUITAR-R speakers work as monophonic. And then the GUITAR jack in GUITAR-L only left speaker does. Next plug GUITAR-jacks in GUITAR-R and GUITAR-L each speakers work as stereophonic.



## ■ ON TIMER

The time lag is often caused by the bend and aberration of TIMER shaft. Check whether the shaft is the proper connection or not.



## ■ RELATION OF SPEAKERS SELECTOR AND SPEAKERS

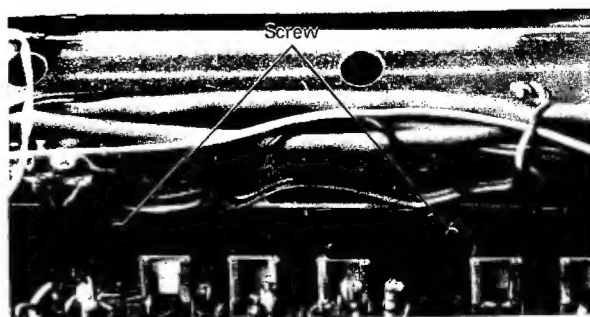
See the right table. It is the table that the relation of speaker connection and speaker selector. For example, push the selector button B or A & B, connecting the speakers to A terminal, they don't work. And also push the button A or A & B, connecting the speakers to B terminal, they don't.

Selector \ SP	A (C)	B (D)	A & B (C & D)
A (C)			
B (D)			
A & B (C & D)			

speakers to work  
 speakers not to work

## ■ HOW TO REPLACE THE PC BOARD

Pc boards are stopped by screws. As replace them loose screws.





# ● SPECIFICATIONS

## FM TUNER SECTION:

**ANTENNA IMPEDANCE:** 300 ohms balanced & 75 ohms unbalanced.

**USABLE SENSITIVITY (IHF):** 1.9  $\mu$ V

**HARMONIC DISTORTION MONO:** 0.5%

**(at 400Hz 100% Mod.) STEREO:** 0.8%

**SIGNAL TO NOISE RATIO:** 60 dB

**CAPTURE RATIO (IHF):** 4.0 dB

**SELECTIVITY (ALT. CH.) (IHF):** 45 dB

**IMAGE REJECTION:** 60 dB

**IF REJECTION:** 100 dB

**AM SUPPRESSION:** 45 dB

**STEREO SEPARATION (at 1 kHz):** 30 dB  
**(at 10 kHz):** 20 dB

**SUB CARRIER SUPPRESSION:** 40 dB

**STEREO AUTO-SWITCHING LEVEL:** 10  $\mu$ V

**FRONT END:** 1-FET, 3-Gang

**IF-STAGE:** 1-IC

## AM TUNER SECTION:

**ANTENNA:** Built-in ferrite bar antenna & External antenna terminals

**USABLE SENSITIVITY (IHF):** 25  $\mu$ V

**SELECTIVITY (IHF):** 25 dB

**IMAGE REJECTION:** 45 dB

**IF REJECTION:** 35 dB

**FRONT END:** 2-Gang

## AMPLIFIER SECTION:

### POWER OUTPUT:

both ch. at 4 ohms: 180 watts

both ch. at 8 ohms: 130 watts

### DYNAMIC POWER OUTPUT:

both ch. at 4 ohms: 150 watts

both ch. at 8 ohms: 110 watts

### CONTINUOUS POWER OUTPUT:

each ch. at 4 ohms: 50/50 watts

each ch. at 8 ohms: 40/40 watts

both ch. at 4 ohms: 39/39 watts

both ch. at 8 ohms: 33/33 watts

**HARMONIC DISTORTION (at rated):** 0.5%

**(at -3 dB rated):** 0.1%

**INTERMODULATION DISTORTION:**

**(at rated):** 0.5%

**(at -3 dB rated):** 0.2%

### FREQUENCY RESPONSE:

**HIGH LEVEL (AUX) INPUT:** 20 ~ 40,000 Hz  $\pm$ 1.5 dB

**POWER BANDWIDTH (IHF):** 17 ~ 30,000 Hz

### HUM & NOISE:

PHONO 1, 2: 65 dB

MIC: 58 dB

AUX/TAPE PLAY: 75 dB

### INPUT SENSITIVITY (for rated output):

PHONO 1: 2.5 mV 50 K ohms

PHONO 2: 2.5 mV 50 K ohms

MIC: 2.0 mV 10 K ohms

GUITAR: 20 mV 30 K ohms

AUX 1: 180 mV 50 K ohms

AUX 2: 180 mV 50 K ohms

TAPE PLAY A: 180 mV 50 K ohms

TAPE PALY B: 180 mV 50 K ohms

MAIN INPUT: 100 mV

**DAMPING FACTOR (at 8 ohms):** 50

**SPEAKER IMPEDANCE:** accept 4 to 16 ohms

## MULTI PRESENCE CONTROL

### SELECTOR:

DEFEAT, LOUDNESS at 100 Hz: +10 dB

TONE, JAZZ, VOCAL, MOOD

**BASS CONTROL (at 100 Hz):**  $\pm$ 10 dB

**TREBLE CONTROL (at 10,000 Hz):**  $\pm$ 10 dB

## ELECTRONIC RHYTHM COMPOSER SECTION:

### RHYTHM SELECTOR:

(1) March, (2) Fox Trot, (3) Rock, (4) R & B, (5) Ballad,

(6) Shuffle, (7) Bossanova 1, (8) Bossanova 2, (9) Latin

Beat (10) Mambo, (11) Waltz, (12) Jazz Waltz.

**ELECTRONIC PERCUSSIONS:** 5 different Sounds

**RHYTHM MODE SWITCH:** Left, Right, Stereo, Reverse, Mono

**FOOT SWITCH JACK:** Yes.

**ACCESSORY PARTS:** Foot Switch (Remote Control Switch of START and BREAK for E, R, C.)

## REVERBERATION SECTION:

**LEVEL CONTROL:** 0 to 2 seconds

**MODE:** OFF—SOURCE—GUITAR—MIC— RHYTHM

## TIMER SECTION:

2 hours

## GENERAL:

**SWITCHES:** SPEAKERS: A, B, C, D.

**SELECTOR:** AM, FM AUTO, PHONO 1, PHONO 2, AUX 1, AUX 2, RHYTHM.

**POWER LIMITER:** 50 watts, 100 watts, Full Power.

**MODE SWITCHES:** STEREO-MONO, NORMAL-REVERSE

**TAPE MONITOR A:** SOURCE, PLAY

**TAPE MONITOR B:** SOURCE, PLAY

**AUDIO MUTING:** ON (-20 dB), OFF

**FM MUTING:** ON, OFF

**LOW FILTER:** ON, OFF

**HIGH FILTER:** ON, OFF

**POWER METER:** LOW, HIGH

**PRE OUT:** NORMAL, REVERB (Front)

**PRE OUT-MAIN IN:** NORMAL, SEPARATE (Rear)

(for Separate Use of Pre and Main Amplifier)

**OTHERS:** B PHONES LEVEL

MIC LEVEL

GUITAR JACK (L, R)

MIC JACK (L, R)

PHONES JACK (A, B)

OUTPUT TERMINALS (Front)

PRE OUT — MAIN IN TERMINALS (Rear)

**AC OUTLETS:** SWITCHED 1

UNSWITCHED 2

**POWER CONSUMPTION:**

at full power: 240 watts

at no signal: 45 watts

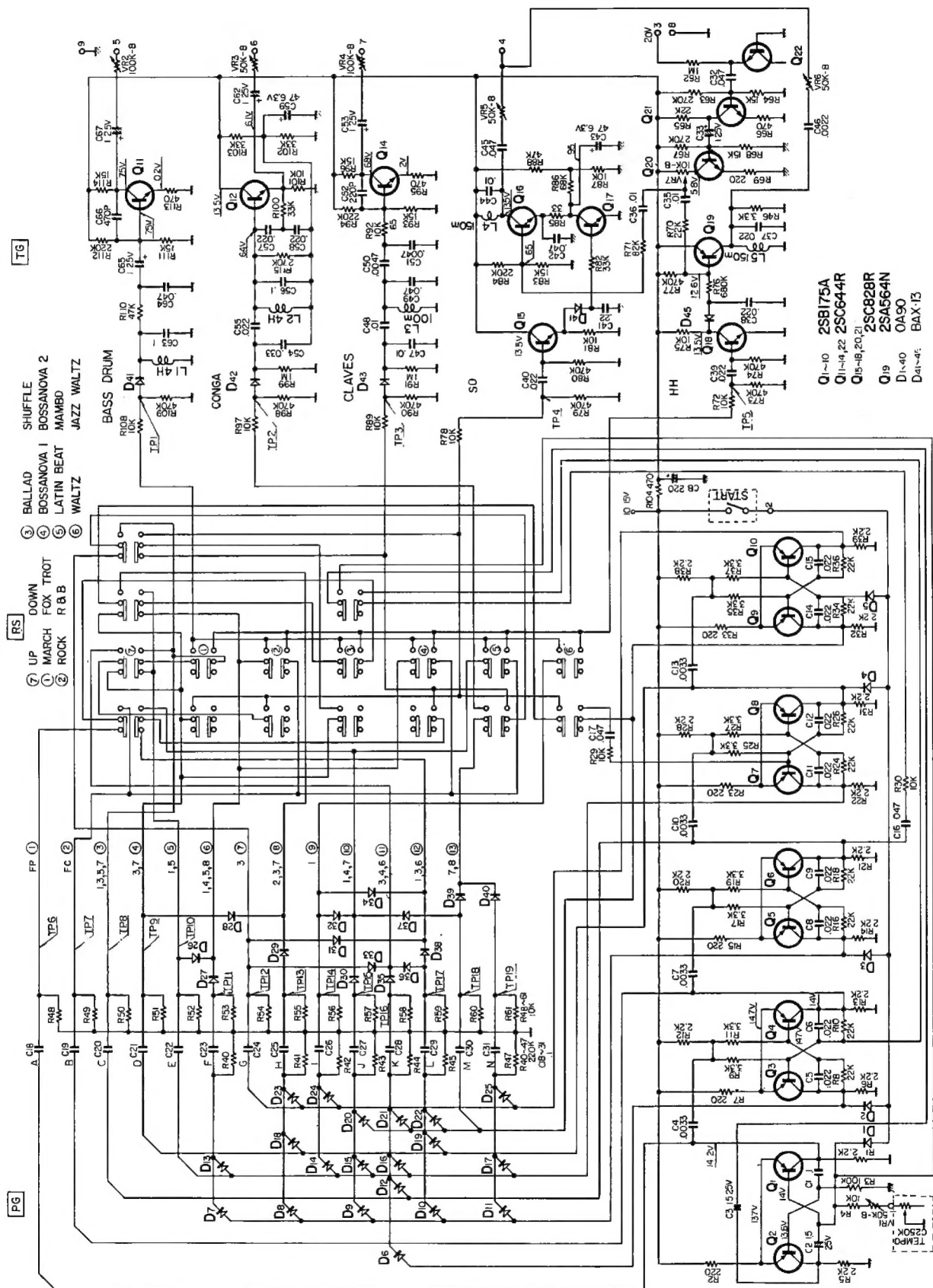
**DIMENSIONS:** W 21-3/4" x H 6-3/4" x D 16-1/4"

**WEIGHT:** 29 lbs (16 kg)

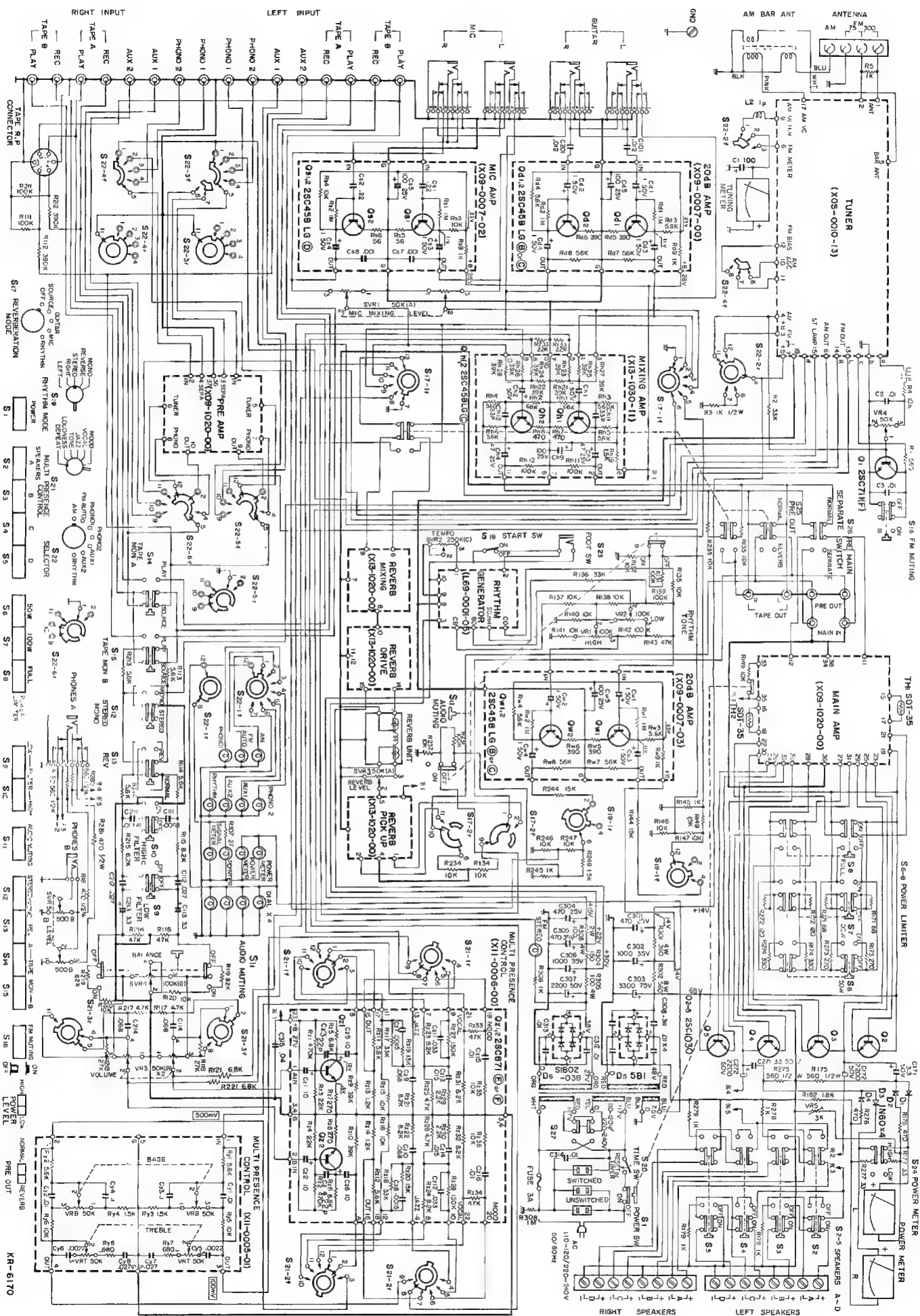
**ACCESSORY PARTS:** Dynamic MIC

**WALNUT CABINET:** Yes

# ● RHYTHM SCHEMATIC DIAGRAM



# SCHEMATIC DIAGRAM







# ● PARTS LIST

Circuit No.	Parts No.	Description			Remarks
UNIT					
—	X05-0010-13	TUNER unit			
—	X09-0007-00	GUITAR AMP unit			
—	X09-0007-02	MIC AMP unit			
—	X09-0007-03	RHYTHM AMP unit			
—	X09-1020-00	PRE & MAIN unit			
—	X11-0005-01	MULTI PRESENCE unit			
—	X11-0006-00	MULTI PRESENCE unit			
—	X13-1020-00	REVERB AMP unit			
—	X13-1030-11	MIXING AMP unit			
—	L69-0001-05	RHYTHM GENERATOR unit			
CAPACITOR					
C1	CE04W0F101	PC electrolytic	100 $\mu$ F	3.15WV	
C2, 3	CK94YY1H103M	Ceramic	0.01 $\mu$ F	$\pm 20\%$	
C101	CQ92M1H123M	Mylar	0.012 $\mu$ F	$\pm 20\%$	
C111	CQ92M1H682M	Mylar	0.0068 $\mu$ F	$\pm 20\%$	
C112	CQ92M1H273M	Mylar	0.027 $\mu$ F	$\pm 20\%$	
C113	CE04W1H3R3	PC electrolytic	3.3 $\mu$ F	50WV	
C114	CQ92M1H683M	Mylar	0.068 $\mu$ F	$\pm 20\%$	
C171	CE04W1H3R3	PC electrolytic	3.3 $\mu$ F	50WV	
C172	CE62AW1H222	Electrolytic block	2200 $\mu$ F	50WV	
C201	CQ92M1H123M	Mylar	0.012 $\mu$ F	$\pm 20\%$	
C211	CQ92M1H682M	Mylar	0.0068 $\mu$ F	$\pm 20\%$	
C212	CQ92M1H273M	Mylar	0.027 $\mu$ F	$\pm 20\%$	
C213	CE04W1H3R3	PC electrolytic	3.3 $\mu$ F	50WV	
C214	CQ92M1H683M	Mylar	0.068 $\mu$ F	$\pm 20\%$	
C271	CE04W1H3R3	PC electrolytic	3.3 $\mu$ F	50WV	
C272	CE62AW1H222	Electrolytic block	2200 $\mu$ F	50WV	
C301	CE02W1E471	Electrolytic tubular	470 $\mu$ F	25WV	
C302	CE02W1V102	Electrolytic tubular	1000 $\mu$ F	35WV	
C303	CE62AW1K332	Electrolytic block	3300 $\mu$ F	75WV	
C304	CE02W1E471	Electrolytic tubular	470 $\mu$ F	25WV	
C305	CE02W1V471	Electrolytic tubular	470 $\mu$ F	35WV	
C306	CE02W1V102	Electrolytic tubular	1000 $\mu$ F	35WV	
C307	CE62AW1H222	Electrolytic block	2200 $\mu$ F	50WV	
C308~313	CP02B2J103M	Oil filled	0.01 $\mu$ F	$\pm 20\%$	
C314	C90-0036-05	Oil filled (UL, CSA)	0.01 $\mu$ F	$\pm 20\%$	
C315	CK94YX1H403M	Ceramic	0.04 $\mu$ F	$\pm 20\%$	
RESISTOR					
R1	PD14BY2E561J	Insulated carbon film	560 $\Omega$	$\pm 5\%$	1/4W
R2	PD14BY2E333J	Insulated carbon film	33k $\Omega$	$\pm 5\%$	1/4W
R3	RC05GF2H102K	Carbon composition	1k $\Omega$	$\pm 10\%$	1/2W
R4	PD14BY2E103J	Insulated carbon film	10k $\Omega$	$\pm 5\%$	1/4W
R5	PD14BY2E102J	Insulated carbon film	1k $\Omega$	$\pm 5\%$	1/4W
R111	PD14BY2E104J	Insulated carbon film	100k $\Omega$	$\pm 5\%$	1/4W
R112	PD14BY2E394J	Insulated carbon film	390k $\Omega$	$\pm 5\%$	1/4W
R113, 114	PD14BY2E562J	Insulated carbon film	5.6k $\Omega$	$\pm 5\%$	1/4W
R115	PD14BY2E822J	Insulated carbon film	8.2k $\Omega$	$\pm 5\%$	1/4W
R116	PD14BY2E473J	Insulated carbon film	47k $\Omega$	$\pm 5\%$	1/4W
R117	PD14BY2E472J	Insulated carbon film	4.7k $\Omega$	$\pm 5\%$	1/4W
R118	PD14BY2E273J	Insulated carbon film	27k $\Omega$	$\pm 5\%$	1/4W
R119	PD14BY2E823J	Insulated carbon film	82k $\Omega$	$\pm 5\%$	1/4W
R120	PD14BY2E103J	Insulated carbon film	10k $\Omega$	$\pm 5\%$	1/4W
R121	PD14BY2E682J	Insulated carbon film	6.8k $\Omega$	$\pm 5\%$	1/4W
R131	PD14BY2E104J	Insulated carbon film	100k $\Omega$	$\pm 5\%$	1/4W

# ● PARTS LIST

Circuit No.	Parts No.	Description	Remarks
R132	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R133	PD14BY2E223J	Insulated carbon film 22k $\Omega$ $\pm 5\%$ 1/4W	
R134, 135	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R136	PD14BY2E333J	Insulated carbon film 33k $\Omega$ $\pm 5\%$ 1/4W	
R137, 138	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R139	PD14BY2E104J	Insulated carbon film 100k $\Omega$ $\pm 5\%$ 1/4W	
R140, 141	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R142	PD14BY2E104J	Insulated carbon film 100k $\Omega$ $\pm 5\%$ 1/4W	
R143	PD14BY2E473J	Insulated carbon film 47k $\Omega$ $\pm 5\%$ 1/4W	
R144	PD14BY2E153J	Insulated carbon film 15k $\Omega$ $\pm 5\%$ 1/4W	
R145	PD14BY2E102J	Insulated carbon film 1k $\Omega$ $\pm 5\%$ 1/4W	
R146, 147	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R148	PD14BY2E152J	Insulated carbon film 1.5k $\Omega$ $\pm 5\%$ 1/4W	
R149	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R171	PD14BY2E680J	Insulated carbon film 68 $\Omega$ $\pm 5\%$ 1/4W	
R172	PD14BY2E121J	Insulated carbon film 120 $\Omega$ $\pm 5\%$ 1/4W	
R173	PD14BY2E271J	Insulated carbon film 270 $\Omega$ $\pm 5\%$ 1/4W	
R174	PD14BY2E331J	Insulated carbon film 330 $\Omega$ $\pm 5\%$ 1/4W	
R175	RC05GF2H561J	Carbon composition 560 $\Omega$ $\pm 5\%$ 1/4W	
R176	PD14BY2E471J	Insulated carbon film 470 $\Omega$ $\pm 5\%$ 1/4W	
R177	PD14BY2E330J	Insulated carbon film 33 $\Omega$ $\pm 5\%$ 1/4W	
R178, 179	RC05GF2H102K	Carbon composition 1k $\Omega$ $\pm 10\%$ 1/2W	
R180	RC05GF2H561J	Carbon composition 560 $\Omega$ $\pm 5\%$ 1/2W	
R181	RC05GF2H471J	Carbon composition 470 $\Omega$ $\pm 5\%$ 1/2W	
R182	PD14BY2E182J	Insulated carbon film 1.8k $\Omega$ $\pm 5\%$ 1/4W	
R211	PD14BY2E104J	Insulated carbon film 100k $\Omega$ $\pm 5\%$ 1/4W	
R212	PD14BY2E394J	Insulated carbon film 390k $\Omega$ $\pm 5\%$ 1/4W	
R213, 214	PD14BY2E562J	Insulated carbon film 5.6k $\Omega$ $\pm 5\%$ 1/4W	
R215	PD14BY2E822J	Insulated carbon film 8.2k $\Omega$ $\pm 5\%$ 1/4W	
R216	PD14BY2E473J	Insulated carbon film 47k $\Omega$ $\pm 5\%$ 1/4W	
R217	PD14BY2E472J	Insulated carbon film 4.7k $\Omega$ $\pm 5\%$ 1/4W	
R218	PD14BY2E273J	Insulated carbon film 27k $\Omega$ $\pm 5\%$ 1/4W	
R219	PD14BY2E823J	Insulated carbon film 82k $\Omega$ $\pm 5\%$ 1/4W	
R220	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R221	PD14BY2E682J	Insulated carbon film 6.8k $\Omega$ $\pm 5\%$ 1/4W	
R231	PD14BY2E104J	Insulated carbon film 100k $\Omega$ $\pm 5\%$ 1/4W	
R232	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R233	PD14BY2E223J	Insulated carbon film 22k $\Omega$ $\pm 5\%$ 1/4W	
R234, 235	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R244	PD14BY2E153J	Insulated carbon film 15k $\Omega$ $\pm 5\%$ 1/4W	
R245	PD14BY2E102J	Insulated carbon film 1k $\Omega$ $\pm 5\%$ 1/4W	
R246, 247	PD14BY2E103J	Insulated carbon film 10k $\Omega$ $\pm 5\%$ 1/4W	
R248	PD14BY2E152J	Insulated carbon film 1.5k $\Omega$ $\pm 5\%$ 1/4W	
R271	PD14BY2E680J	Insulated carbon film 68 $\Omega$ $\pm 5\%$ 1/4W	
R272	PD14BY2E121J	Insulated carbon film 120 $\Omega$ $\pm 5\%$ 1/4W	
R273	PD14BY2E271J	Insulated carbon film 270 $\Omega$ $\pm 5\%$ 1/4W	
R274	PD14BY2E331J	Insulated carbon film 330 $\Omega$ $\pm 5\%$ 1/4W	
R275	RC05GF2H561J	Carbon composition 560 $\Omega$ $\pm 5\%$ 1/2W	
R276	PD14BY2E471J	Insulated carbon film 470 $\Omega$ $\pm 5\%$ 1/4W	
R277	PD14BY2E331J	Insulated carbon film 330 $\Omega$ $\pm 5\%$ 1/4W	
R278, 279	RC05GF2H102K	Carbon composition 1k $\Omega$ $\pm 10\%$ 1/2W	
R280	RC05GF2H561J	Carbon composition 560 $\Omega$ $\pm 5\%$ 1/2W	
R281	RC05GF2H471J	Carbon composition 470 $\Omega$ $\pm 5\%$ 1/2W	
R301	RW14AG3G391J	Wire wound 390 $\Omega$ $\pm 5\%$ 4W	
R302	RW14AG3K561J	Wire wound 560 $\Omega$ $\pm 5\%$ 8W	
R303	RW14AG3D101J	Wire wound 100 $\Omega$ $\pm 5\%$ 2W	

# ● PARTS LIST

Circuit No.	Parts No.	Description	Remarks
R304	RW14AG3G151J	Wire wound 150Ω ±5% 4W	
R305	RW14AG3G101J	Wire wound 100Ω ±5% 4W	
R306	RW14AG3D101J	Wire wound 100Ω ±5% 2W	
R307	RC05GF2H270K	Carbon composition 27Ω ±5% 1/2W	
R308	RC05GF2H105K	Carbon composition 1MΩ ±10% 1/2W	
POTENTIOMETER			
VR1	R01-5006-05	HIGH RHYTHM TONE 100kΩ (B)	
VR2	R01-5006-05	LOW RHYTHM TONE 100kΩ (B)	
VR3	R01-4004-05	VOLUME 50kΩ (B) dual	
VR4	R12-4015-05	PC trimmer potentiometer 50kΩ	
VR5	R12-1016-05	PC trimmer potentiometer 3kΩ	
SVR1	R13-4008-05	MIXING LEVEL 50kΩ (A) slide 2-gang	
SVR2	R13-6002-05	TEMPO 250kΩ (C) slide	
SVR3	R13-4007-05	REVERB LEVEL 50kΩ (A) slide	
SVR4	R13-5001-05	BALANCE 100kΩ (G) slide	
SVR5	R13-0001-05	PHONES LEVEL 500Ω (B) slide 2-gang	
SWITCH			
S1	S41-8001-05	POWER (eight-pushbutton A)	
S2	S41-8001-05	SPEAKERS A (eight-pushbutton A)	
S3	S41-8001-05	SPEAKERS B (eight-pushbutton A)	
S4	S41-8001-05	SPEAKERS C (eight-pushbutton A)	
S5	S41-8001-05	SPEAKERS D (eight-pushbutton A)	
S6	S41-8001-05	50W POWER LIMITER (eight-pushbutton A)	
S7	S41-8001-05	100W POWER LIMITER (eight-pushbutton A)	
S8	S41-8001-05	FULL POWER (eight-pushbutton A)	
S9	S41-8002-05	LOW FILTER (eight-pushbutton B)	
S10	S41-8002-05	HIGH FILTER (eight-pushbutton B)	
S11	S41-8002-05	AUDIO MUTING (eight-pushbutton B)	
S12	S41-8002-05	STEREO/MONO (eight-pushbutton B)	
S13	S41-8002-05	REV. (eight-pushbutton B)	
S14	S41-8002-05	TAPE MONITOR A (eight-pushbutton B)	
S15	S41-8002-05	TAPE MONITOR B (eight-pushbutton B)	
S16	S41-8002-05	FM MUTING (eight-pushbutton B)	
S17	S01-2008-05	REVERB MODE (rotary) F · 2 · 6 · 5	
S18	S40-1001-05	RHYTHM SELECTOR	
S19	S01-1009-05	RHYTHM MODE (rotary) F · 1 · 2 · 5	
S20	S59-1025-05	TIMER	
S21	S01-3006-05	MULTI PRESENCE TONE (rotary) F · 3 · 6 · 6	
S22	S01-6001-05	SELECTOR (rotary) F · 6 · 15 · 7	
S23	Y15-1000-80	FOOT SW	
S24	S31-6005-05	VU LEVEL (slide)	
S25	S31-6005-05	PRE OUT (slide)	
S26	S31-2007-05	PRE/MAIN SEPARATE SW (slide)	
S27	S31-2004-05	VOLTAGE SELECTOR (slide)	
S28	S36-1001-05	START SW (lever)	
TRANSISTOR/DIODE/THERMISTOR			
Q1		2SC711(F)	
Q2~5		2SC1030	
D1~4		1N60	
D5		5B1	
D6		S1B02-03B	
TH1, 2		SDT-35	
MISCELLANEOUS			
—	A03-0078-22	Cabinet	

# ● PARTS LIST

Circuit No.	Parts No.	Description	Remarks
—	A10-0260-11	Chassis	
—	A20-0408-21	Panel	
—	A21-0066-22	Ornamental plate	
—	A22-0100-11	Sub panel	
—	A23-0221-01	Rear panel	
—	A33-0014-03	Reflector	
—	A42-0007-12	Bottom plate	
—	A70-0055-23	Panel assembly	
—	B01-0049-04	Left side escutcheon	
—	B01-0050-04	Right side escutcheon	
—	B04-0033-04	Screen	
—	B04-0035-04	Screen	
—	B08-2010-04	Indicator (blue)	
—	B10-0058-02	Front glass	
—	B19-0104-03	Filter	
—	B20-0201-03	Dial calibrations	
—	B21-4006-05	Dial pointer assembly	
P.L	B30-0015-15	Fuse type pilot lamp	
P.L	B30-0026-15	STEREO indicator (30mA, 8V)	
P.L	B30-0039-05	Pilot lamp (50mA, 8V)	
M	B31-0006-05	Signal meter	
M	B31-0119-05	VU meter	
—	B40-0504-04	Destination plate (P)	
—	B41-0105-04	Power voltage plate (P)	
—	B41-0110-04	Voltage selector caution card (P)	
—	B42-0009-04	Passed sticker	
—	B42-0046-14	UL caution card (K)	
—	B42-0161-04	Loopstick antenna caution sticker	
—	B42-0219-04	UL caution card (K)	
—	B42-0267-04	UL caution card (K, U)	
—	B46-0002-00	Warranty card (K, U)	
—	B46-0003-00	Warranty card (U)	
—	B46-0021-00	Warranty card (P)	
—	B47-0029-04	TIMER caution card	
—	B47-0032-04	REVERB CRAMP caution card	
—	B50-0667-00	Instruction manual (K, P)	
—	B50-0668-00	Instruction manual (U)	
—	B52-0101-00	Schematic diagram	
—	B58-0003-00	Power supply caution card (U)	
—	B58-0043-00	Carton case caution card (K, P)	
—	B58-0101-00	Voltage selector caution card (U)	
—	B58-0114-04	Voltage selector caution card (P)	
—	B58-0125-00	Caution card	
—	B59-0018-00	KENWOOD service stations lists (U)	
—	D01-0009-05	Flywheel	
—	D15-0037-04	Small pulley	
—	D15-0038-04	Pulley	
—	D15-0073-04	Pulley x 4	
—	D20-0087-03	Dial shaft	
—	D21-0182-03	Shaft	
—	D22-0018-05	Shaft coupling	
—	D23-0060-04	Shaft bearing	
—	D32-0021-04	Switch stopper	
—	E02-0207-05	Transistor socket	



# ● PARTS LIST

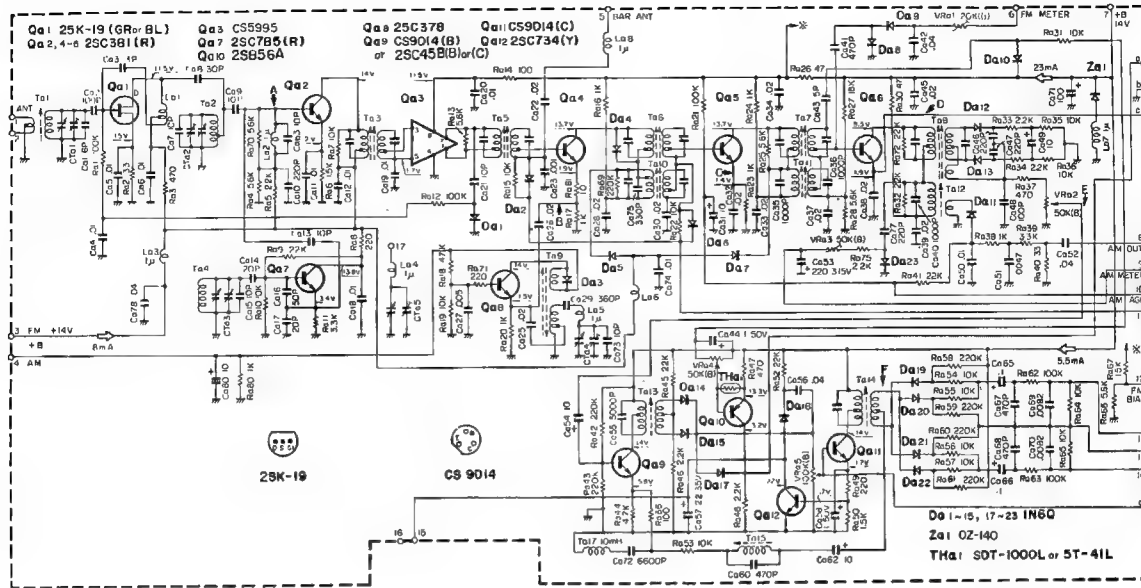
Circuit No.	Parts No.	Description	Remarks
—	E05-0203-05	Power plug (W)	
—	E08-0205-05	AC outlet	
J	E08-0217-05	Foot switch jack	
J	E11-0002-05	Phone jack (A)	
J	E11-0044-05	Phone jack	
J	E11-0048-05	Phone jack x 4	
J	E13-0205-05	2P pin jack	
J	E13-0401-05	4P pin jack (TAPE A)	
J	E13-0404-05	4P pin jack	
J	E13-0408-05	4P pin jack (TAPE B)	
J	E13-0802-05	8P pin jack	
—	E20-0418-03	4P terminal strips	
—	E20-0807-03	8P terminal strips	
—	E30-0046-05	Power cord (K, U, P)	
—	F01-0069-03	Head sink	
F	F05-3022-05 or F05-3024-05	Fuse (3A)	
—	F10-0205-04	Shield plate	
—	F10-0232-04	Shield plate	
—	F11-0141-04	Reflector box	
—	F30-0020-04	Bottom plate armature	
—	F31-0059-04	Armature	
—	F31-0060-04	Chassis armature	
—	F31-0061-04	Chassis armature	
—	G01-0045-14	Dial spring	
—	G01-0049-14	Dial spring x 5	
—	G13-0047-04	Reverb cushion	
—	G13-0050-04	Dial stopper	
—	G13-0051-04	Dial stopper	
—	H01-0648-04	Carton Case (K, U, P)	
—	H03-0047-04	Carton case (K, P)	
—	J02-0049-14	Legs	
—	J13-0016-15	Fuse holder	
—	J13-0023-05	Fuse holder x 7	
—	J19-0147-03	Meter stopper	
—	J19-0148-04	Dial stopper	
—	J19-0149-03	Push switch stopper	
—	J19-0150-04	Push switch stopper	
—	J19-0160-04	Dial stopper	
—	J20-0181-03	Switch stopper	
—	J21-0192-04	Amp. hardware	
—	J21-0480-13	Antenna stopper	
—	J21-0798-04	Pilot lamp hardware	
—	J21-0799-04	Pulley hardware	
—	J21-0800-03	Reverb hardware (A)	
—	J21-0801-03	Reverb hardware (B)	
—	J21-0801-04	Reverb hardware (C)	
—	J21-0546-04	Thermistor holder	
—	J21-0682-04	PC board hardware	
—	J25-0564-02	PC board (push switch with power)	
—	J25-0565-02	PC board (push switch)	

# ● PARTS LIST

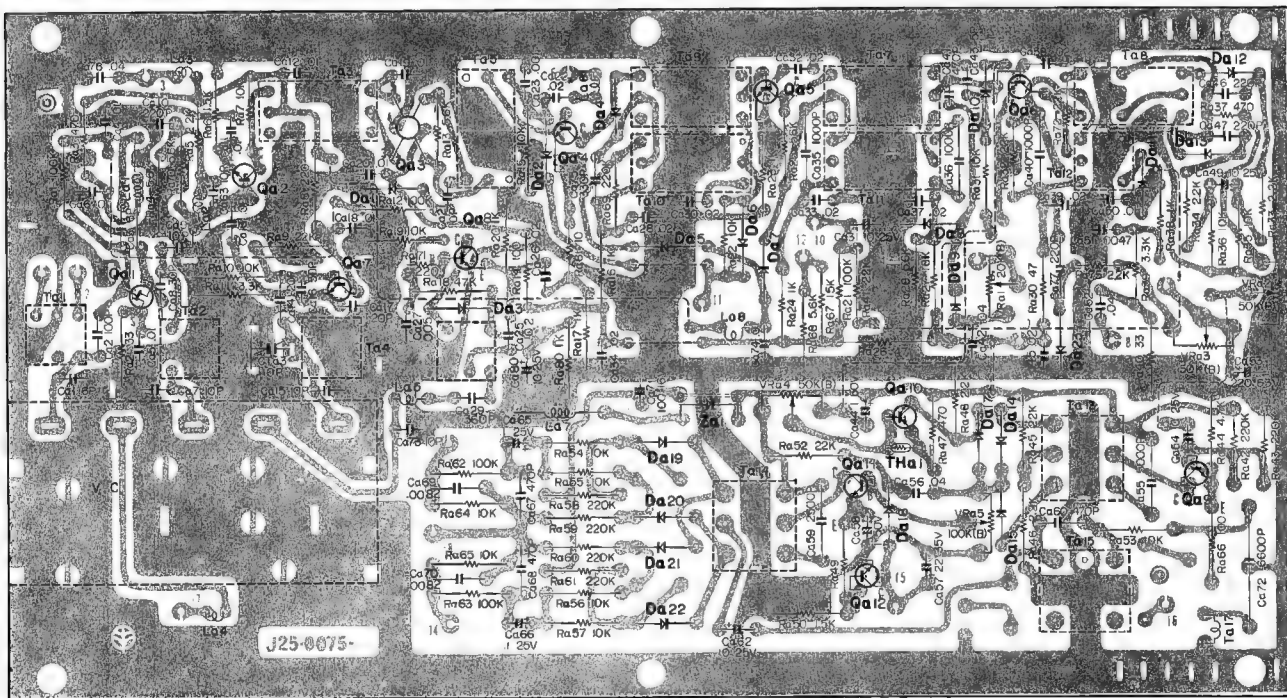
Circuit No.	Parts No.	Description	Remarks
—	J25-0566-04	PC board (FM MUTING)	
—	J25-0574-04	PC board (FM MUTING)	
—	K23-0049-03	Knob (VOLUME, SELECTOR)	
—	K23-0050-03	Knob (REVERB MODE)	
—	K23-0051-14	Knob (BALANCE, TEMPO, REVERB LEVEL)	
—	K23-0061-04	Knob (RHYTHM TONE, BASS, TREBLE)	
—	K23-0068-03	Knob (TIMER)	
—	K23-0069-04	Knob (RHYTHM MODE, MULTIPRESENCE, CONTROL SELECTOR)	
—	K23-0070-03	Knob (TUNING)	
—	K29-0020-14	Knob (REVERB CRAMP, PHONES LEVEL, MIC LEVEL)	
—	K29-0073-04	Knob (START SW)	
P.T	L03-0047-05	Power transformer (47V-2.2A, 27V-0.4A, 7.5V-2.8A)	
L1, 2	L15-0009-05	Choke coil (4H) in RHYTHM GENERATOR	
L3	L15-0010-05	Choke coil (100mH) in RHYTHM GENERATOR	
L1, 2	L33-0086-05	Ferri-inductor (1μH)	
—	T29-0003-05	Reverbration unit	
ANT	T90-0002-05	FM indoor antenna	
ANT	T90-0026-05	Loopstick antenna	
MIC	T91-0016-05	Microphone	

\* In America add to the parts of (K), in Canada do to that of (P), and in other area do to that of (U).

SEALED CIRCUIT ASSEMBLIES PHANTOM VIEWS



SCHEMATIC DIAGRAM



Qa1: 2SK19 (GRarBL), Qa2,4-6: 2SC381 (R), Qa3: CS5995 (RorR), Qa7: 2SC785 (R), Qa9: CS9014 (B) or 2SC458L (BorLC), Qa10: 2SB56A, Qa11: CS9014 (C) or 2SC458L (C), Qa12: 2SC734 (Y)  
 Da1,2,4-6,17-23: IN60 or IN34A, Za1: ZB1-14, Tha1: SOT-1000L or 5T-41L

BOTTOM VIEW  
OF  
TRANSISTOR

2SK19



2SC734  
2SC381R  
2SC785R  
2SC378



CS5995



2SB56A



CS9014



2SC458L



**TUNER (X05-0010-13) SECTION**

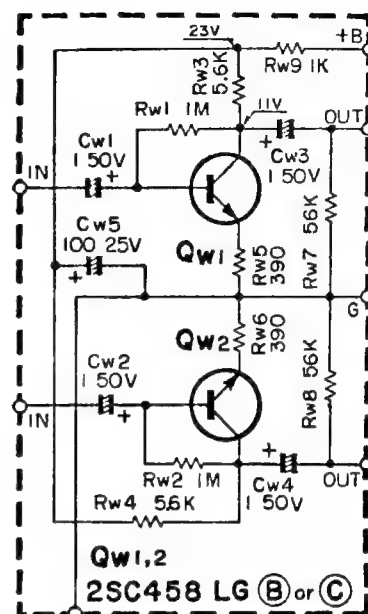
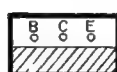
V.C.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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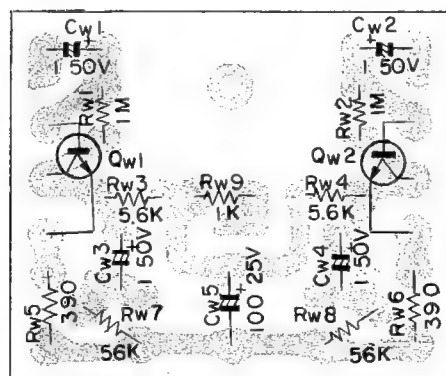
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR

2SC458LG



SEALED CIRCUIT ASSEMBLIES PHANTOM VIEWS



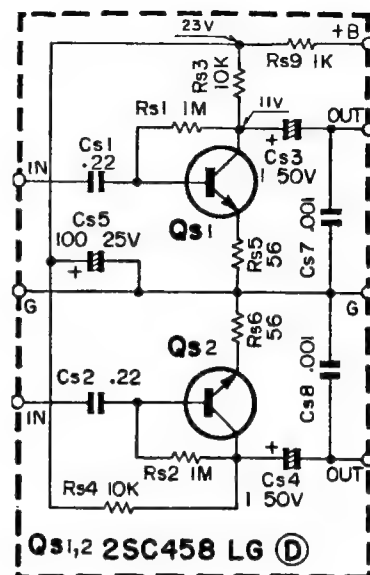
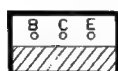
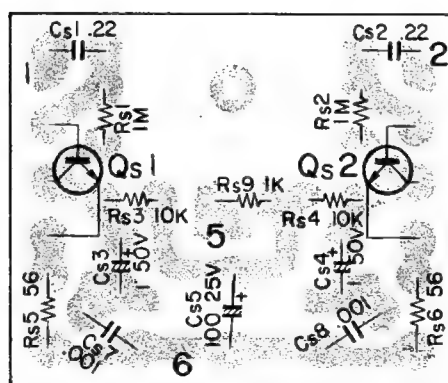
Qw1, 2 2SC 458LG (B) or (C)

**PARTS DESCRIPTION LIST**

Circuit No.	Parts No.	Description	Remarks
<b>CAPACITOR</b>			
Cd(W)1~4	CE04W1H010	PC electrolytic 1 $\mu$ F 50WV	
Cd(W)5	CE04W1E101	PC electrolytic 100 $\mu$ F 25WV	
<b>RESISTOR</b>			
Rd(W)1, 2	RC05GF2H105K	Carbon composition 1M $\Omega$ $\pm$ 10% 1/2W	
Rd(W)3, 4	PD14CY2E562J	Insulated carbon film 5.6k $\Omega$ $\pm$ 5% 1/4W	
Rd(W)5, 6	PD14CY2E391J	Insulated carbon film 390 $\Omega$ $\pm$ 5% 1/4W	
Rd(W)7, 8	PD14CY2E563K	Insulated carbon film 56k $\Omega$ $\pm$ 10% 1/4W	
Rd(W)9	PD14CY2E102K	Insulated carbon film 1k $\Omega$ $\pm$ 10% 1/4W	
<b>TRANSISTOR/PC BOARD</b>			
Qd(S)1, 2 —	J25-0079-04	2SC458LG(B) or (C) PC board	

**SCHEMATIC DIAGRAM**
**BOTTOM VIEW OF TRANSISTOR**

2SC458LG


**SEALED CIRCUIT ASSEMBLIES PAHNTOM VIEWS**


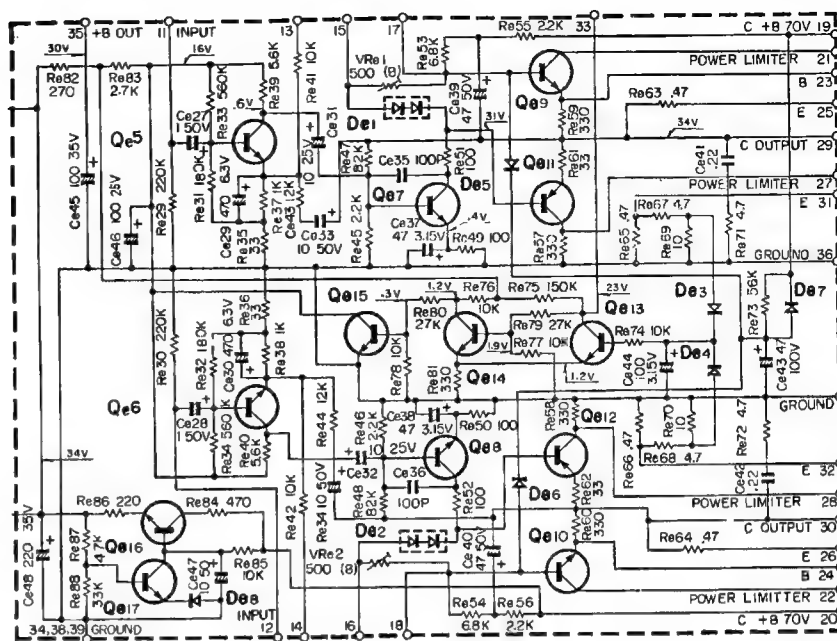
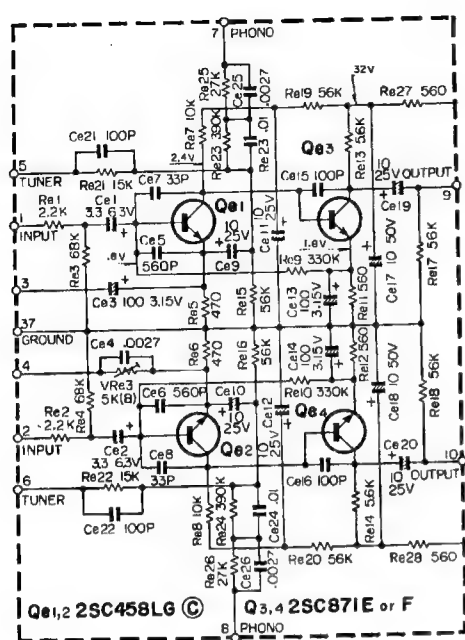
Qs1, 2 2SC458LG (D)

**MIC AMP (X09-0007-02) SECTION****PARTS DESCRIPTION LIST**

Circuit No.	Parts No.	Description				Remarks
CAPACITOR						
Cs1, 2	CS04D1ER22MorX	Tantalum	0.22μF	25WV		
Cs3, 4	CE04W1H010	PC electrolytic	1μF	50WV		
Cs5	CE04W1E101	PC electrolytic	100μF	25WV		
Cs7, 8	CK94YY1H102M	Ceramic	0.001μF	±20%		
RESISTOR						
Rs1, 2	RC05GF2H105K	Carbon composition	1MΩ	±10%	1/2W	
Rs3, 4	PD14CY2E103J	Insulated carbon film	10kΩ	±5%	1/4W	
Rs5, 6	PD14CY2E560J	Insulated carbon film	56Ω	±5%	1/4W	
Rs9	PD14CY2E102K	Insulated carbon film	1kΩ	±10%	1/4W	
TRANSISTOR/PC BOARD						
Qs1, 2		2SC458LG (D)				
—	J25-0077-04	PC board				



### SCHEMATIC DIAGRAM



**BOTTOM VIEW OF TRANSISTOR**

2SC458



2SD234



2SA606



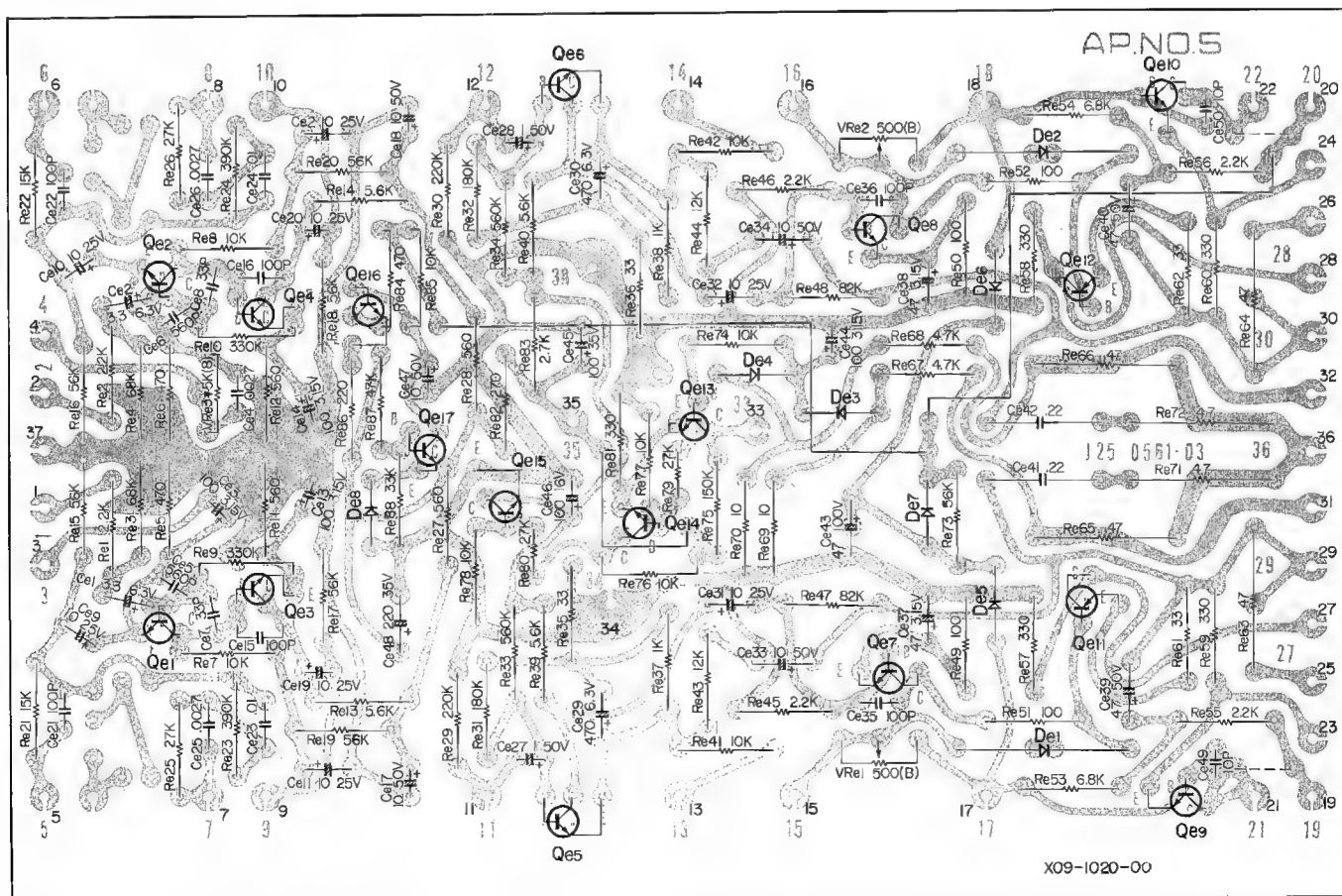
2SC711



2SC1212



### SEALED CIRCUIT ASSEMBLIES PHANTOM VIEWS

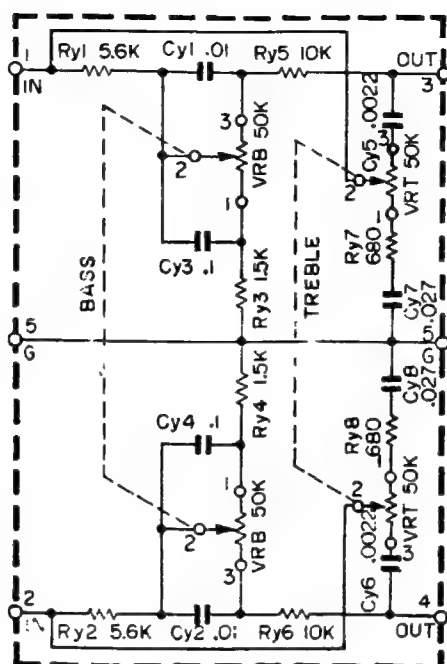


Qe1,2: 2SC458LG(C), Qe3,4: 2SC871E or F, Qe5,6: 2SC458LG(C) or (D), Qe7,8: 2SC1212A(C), Qe9,10: 2SC1212A(B) or (C), Qe11,12: 2SA6Q6, Qe13,14: 2SC458(B) or (C), Qe15: 2SC734(O) or (Y)  
Qe16: 2SD234(O) or (Y), Qe17: 2SC71A(E), De1,2: MV-13, Qe3,4: IN60, De5,6,7: IS1553V, De8: IS338T

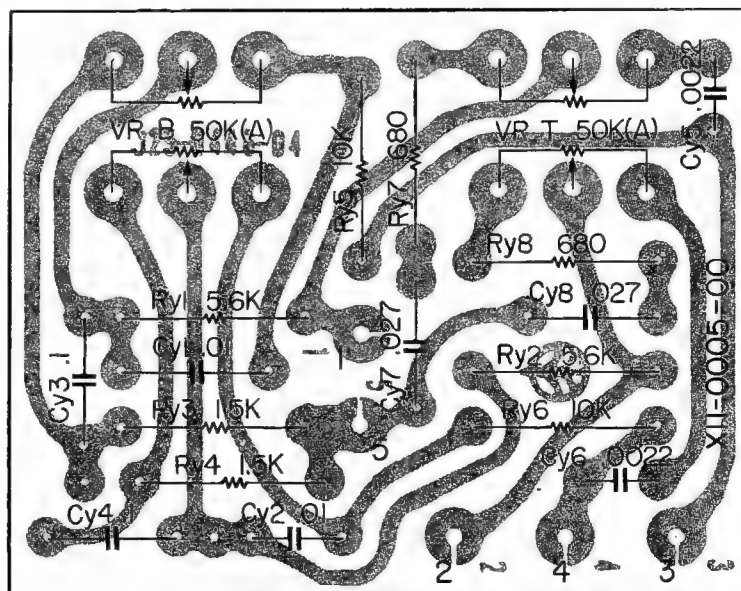


Circuit No.	Parts No.	Description	Remarks
Ca1, 2	CS04D0J3R3M	Tantalum	
	3.3uF	6.3WV	
Ca3	CE04W0F101	PC electrolytic	
	100uF	3.15WV	
Ca4	CC03M1H272K	Mylar	
	0.0027uF	±10%	
Ca5, 6	CK94YV1H5B1M	Ceramic	
	560pF	±20%	
Ca7, 8	CC04SL1H330K	TC ceramic	
	33pF	±10%	
Ca9~12	CE04W1E100	PC electrolytic	
	10uF	25WV	
Ca13, 14	CE04W0F101	PC electrolytic	
	100uF	3.15WV	
Ca15, 16	CS04SL1H101K	TC ceramic	
	100pF	±10%	
Ca17, 18	CE04W1H100	PC electrolytic	
	10uF	50WV	
Ca19, 20	CE04W1E100	PC electrolytic	
	10uF	25WV	
Ca21, 22	CC04SL1H101K	TC ceramic	
	100pF	±10%	
Ca23, 24	CC03M1H103K	Mylar	
	0.01uF	±10%	
Ca25, 26	CC03M1H272K	Mylar	
	0.0027uF	±10%	
Ca27, 28	CE04W1H010	PC electrolytic	
	1uF	50WV	
Ca29, 30	CE04W0J471	PC electrolytic	
	470uF	6.3WV	
Ca31, 32	CE04W1E100	PC electrolytic	
	10uF	25WV	
Ca33, 34	CE04W1H100	PC electrolytic	
	10uF	50WV	
Ca35, 36	CC04SL1H101K	TC ceramic	
	100pF	±10%	
Ca37, 38	CE04W0F470	PC electrolytic	
	47uF	3.15WV	
Ca39, 40	CE04W1H470	PC electrolytic	
	47uF	50WV	
Ca41, 42	CC03M1H234M	Mylar	
	0.22uF	±20%	
Ca43	CE04W2A470	PC electrolytic	
	47uF	100WV	
Ca44	CE04W0F101	PC electrolytic	
	100uF	3.15WV	
Ca45	CE04W1V101	PC electrolytic	
	100uF	35WV	
Ca46	CE04W1E101	PC electrolytic	
	100uF	25WV	
Ca47	CE04W1H100	PC electrolytic	
	10uF	50WV	
Ca48	CE04W1V221	PC electrolytic	
	220uF	35WV	
RESISTOR			
Ra1, 2	PD148V2E222J	Insulated carbon film	±5% 1/4W
	2.2kΩ		
Ra3, 4	PD148V2E683J	Insulated carbon film	±5% 1/4W
	68kΩ		
Ra5, 6	PD148V2E471J	Insulated carbon film	±5% 1/4W
	470Ω		
Ra7, 8	PD148V2E103J	Insulated carbon film	±5% 1/4W
	10kΩ		
Ra9, 10	PD148V2E334J	Insulated carbon film	±5% 1/4W
	330kΩ		
Ra11, 12	PD148V2E561J	Insulated carbon film	±5% 1/4W
	560Ω		
Ra13, 14	PD148V2E562J	Insulated carbon film	±5% 1/4W
	5.6kΩ		
Ra15, 16	PD148V2E563J	Insulated carbon film	±5% 1/4W
	5.6kΩ		
Ra17, 18	PD148V2E563J	Insulated carbon film	±5% 1/4W
	5.6kΩ		
Ra19, 20	PD148V2E563J	Insulated carbon film	±5% 1/4W
	5.6kΩ		
Ra21, 22	PD148V2E153J	Insulated carbon film	±5% 1/4W
	15kΩ		
Ra23, 24	PD148V2E394J	Insulated carbon film	±5% 1/4W
	390kΩ		
Ra25, 26	PD148V2E273J	Insulated carbon film	±5% 1/4W
	27kΩ		
Ra27, 28	PD148V2E661J	Insulated carbon film	±5% 1/4W
	560Ω		
Ra29, 30	PD148V2E224J	Insulated carbon film	±5% 1/4W
	220kΩ		
Ra31, 32	PD148V2E184J	Insulated carbon film	±5% 1/4W
	180kΩ		
Ra33, 34	PD148V2E564J	Insulated carbon film	±5% 1/4W
	560kΩ		
Ra35, 36	PD148V2E330J	Insulated carbon film	±5% 1/4W
	33Ω		
Ra37, 38	PD148V2E102J	Insulated carbon film	±5% 1/4W
	1kΩ		
Ra39, 40	PD148V2E562J	Insulated carbon film	±5% 1/4W
	5.6kΩ		
Ra41, 42	PD148V2E103J	Insulated carbon film	±5% 1/4W
	10kΩ		
Ra43, 44	PD148V2E123J	Insulated carbon film	±5% 1/4W
	12kΩ		
Ra45, 46	PD148V2E222J	Insulated carbon film	±5% 1/4W
	2.2kΩ		
Ra47, 48	PD148V2E823J	Insulated carbon film	±5% 1/4W
	82kΩ		
Ra49, 50	PD148V2E101J	Insulated carbon film	±5% 1/4W
	100Ω		
Ra51, 52	PD148V2E682J	Insulated carbon film	±5% 1/4W
	6.8kΩ		
Ra53, 54	PD148V2E223J	Insulated carbon film	±5% 1/4W
	2.2kΩ		
Ra55, 56	PD148V2E223J	Insulated carbon film	±5% 1/4W
	2.2kΩ		
Ra57, 58	PD148V2E331J	Insulated carbon film	±5% 1/4W
	330Ω		
Ra59, 60	PD148V2E330J	Insulated carbon film	±5% 1/4W
	33Ω		
Ra61, 62	PD148V2E330J	Insulated carbon film	±5% 1W
	33Ω		
Ra63, 64	RN14A830R47K	Insulated carbon film	±10% 1W
	4.7Ω		
Ra65, 66	RN14A830R47K	Carbon composition	±10% 1/2W
	4.7Ω		
Ra67, 68	R005GF2H4R7K	Carbon composition	±10% 1/2W
	4.7Ω		
Ra69, 70	PD148V2E100J	Insulated carbon film	±5% 1/4W
	10Ω		
Ra71, 72	RN14A830R47K	Insulated carbon film	±10% 1W
	4.7Ω		
Ra73	PD148V2E563J	Insulated carbon film	±5% 1/4W
	56kΩ		
Ra74	PD148V2E103J	Insulated carbon film	±5% 1/4W
	10kΩ		
Ra75	PD148V2E154J	Insulated carbon film	±5% 1/4W
	150kΩ		
Ra76~78	PD148V2E103J	Insulated carbon film	±5% 1/4W
	10kΩ		
Ra79, 80	PD148V2E273J	Insulated carbon film	±5% 1/4W
	27kΩ		
Ra81	PD148V2E331J	Insulated carbon film	±5% 1/4W
	330Ω		
Ra82	PD148V2E271J	Insulated carbon film	±5% 1/4W
	270Ω		
Ra83	PD148V2E272J	Insulated carbon film	±5% 1/4W
	27kΩ		
Ra84	R005GF2H471K	Carbon composition	±10% 1/2W
	470Ω		
Ra85	PD148V2E103J	Insulated carbon film	±5% 1/4W
	10kΩ		
Ra86	R005GF2H221K	Carbon composition	±10% 1/2W
	220Ω		
Ra87	PD148V2E473J	Insulated carbon film	±5% 1/4W
	47kΩ		
Ra88	PD148V2E333J	Insulated carbon film	±5% 1/4W
	33kΩ		
TRANSISTOR/DIODES			
Qa1, 2	ZSC458L6 (C)	Insulated carbon film	±5% 1/4W
	25C458L6 (C)		
Qa3, 4	ZSC871 (E) or (F)	Insulated carbon film	±5% 1/4W
	25C871 (E) or (F)		
Qa5, 6	ZSC458L6 (C) or (D)	Insulated carbon film	±5% 1/4W
	25C458L6 (C) or (D)		
Qa7, 8	ZSC1212A (C)	Insulated carbon film	±5% 1/4W
	25C1212A (C)		
Qa9, 10	ZSC1212A (B) or (C)	Insulated carbon film	±5% 1/4W
	25C1212A (B) or (C)		
Qa11, 12	ZSC458 (B) or (C)	Insulated carbon film	±5% 1/4W
	25C458 (B) or (C)		
Qa15	ZSC734 (D) or (V)	Insulated carbon film	±5% 1/4W
	25C734 (D) or (V)		
Qa16	ZSD234 (D) or (V)	Insulated carbon film	±5% 1/4W
	25SD234 (D) or (V)		
Qa17	ZSC711A (E)	Insulated carbon film	±5% 1/4W
	25C711A (E)		
Qa1, 2	MV-13	Insulated carbon film	±5% 1/4W
	1N60		
Da3, 4	1S1553V	Insulated carbon film	±5% 1/4W
	1S338T		
POTENTIOMETER/PC BOARD			
VRa3	PC trimmer potentiometer 500Ω (B)	PC board	
	R12-2015-05		
—	R12-0039-05	PC board	
	J25-0561-03		

**SCHEMATIC DIAGRAM**



**SEALED CIRCUIT ASSEMBLIES PHANTOM VIEWS**



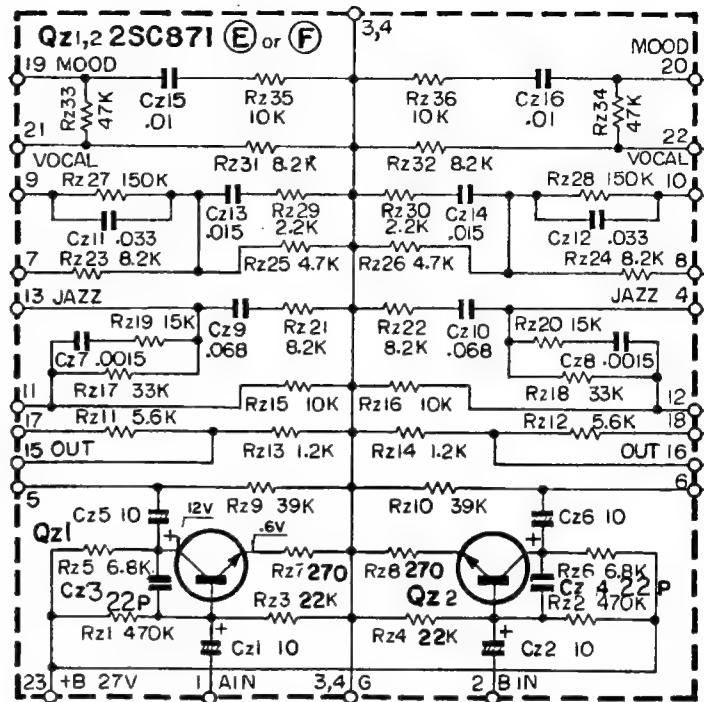
**MULTI PRESENCE (XII-0005-01) SECTION****PARTS DESCRIPTION LIST**

Circuit No.	Parts No.	Description				Remarks
CAPACITOR						
Cy1, 2	CQ93M1H103K	Mylar	0.01μF	±10%		
Cy3, 4	CQ93M1H104K	Mylar	0.1μF	±10%		
Cy5, 6	CQ93M1H222K	Mylar	0.0022μF	±10%		
Cy7, 8	CQ93M1H273K	Mylar	0.027μF	±10%		
RESISTOR						
Ry1, 2	PD14BY2E562J	Insulated carbon film	5.6kΩ	±5%	1/4W	
Ry3, 4	PD14BY2E152J	Insulated carbon film	1.5kΩ	±5%	1/4W	
Ry5, 6	PD14BY2E103J	Insulated carbon film	10kΩ	±5%	1/4W	
Ry7, 8	PD14BY2E681J	Insulated carbon film	680Ω	±5%	1/4W	
POTENTIOMETER/PC BOARD						
VRB	R06-4006-05	BASS 50kΩ(A) dual				
VRT	R06-4006-05	TREBLE 50kΩ(A) dual				
—	J25-0446-14	PC board				

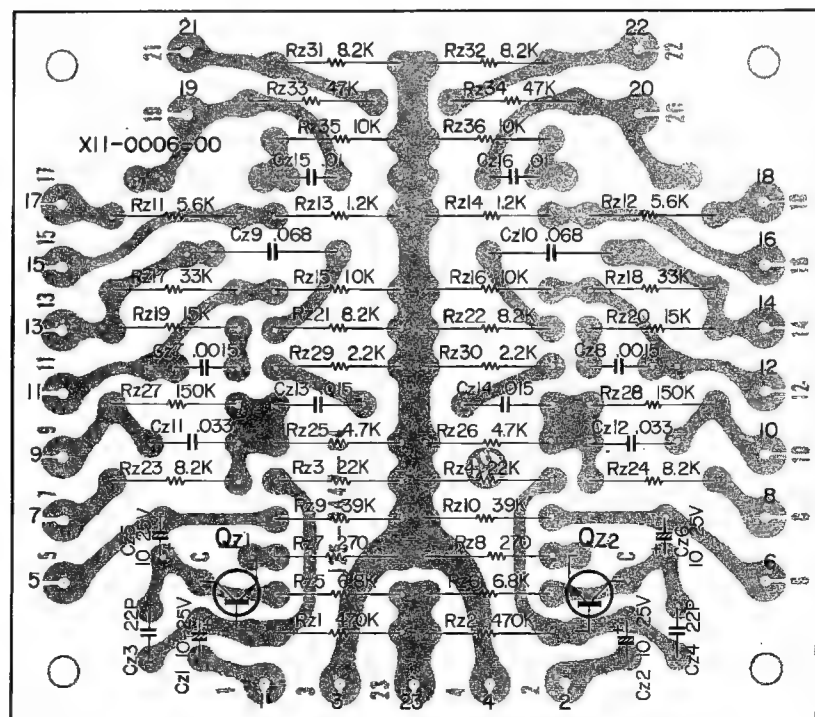
**SCHEMATIC DIAGRAM**

**BOTTOM VIEW OF TRANSISTOR**

2SC871



**SEALED CIRCUIT ASSEMBLIES PHANTOM VIEWS**



Qz1, 2 2SC871 (E) or (F)

**PARTS DESCRIPTION LIST**

Circuit No.	Parts No.	Description				Remarks
CAPACITOR						
Cz1, 2	CE04W1E100	PC electrolytic	10μF	25WV		
Cz3, 4	CC94SL1H220K	TC ceramic	22pF	±10%		
Cz5, 6	CE04W1E100	PC electrolytic	10μF	25WV		
Cz7, 8	CQ93M1H152K	Mylar	0.0015μF	±10%		
Cz9, 10	CQ93M1H683K	Mylar	0.068μF	±10%		
Cz11, 12	CQ93M1H333K	Mylar	0.033μF	±10%		
Cz13, 14	CQ93M1H153K	Mylar	0.015μF	±10%		
Cz15, 16	CQ93M1H103K	Mylar	0.01μF	±10%		
RESISTOR						
Rz1, 2	PD14BY2E474J	Insulated carbon film	470kΩ	±5%	1/4W	
Rz3, 4	PD14BY2E223J	Insulated carbon film	22kΩ	±5%	1/4W	
Rz5, 6	PD14BY2E682J	Insulated carbon film	6.8kΩ	±5%	1/4W	
Rz7, 8	PD14BY2E271J	Insulated carbon film	270Ω	±5%	1/4W	
Rz9, 10	PD14BY2E393J	Insulated carbon film	390kΩ	±5%	1/4W	
Rz11, 12	PD14BY2E562J	Insulated carbon film	5.6kΩ	±5%	1/4W	
Rz13, 14	PD14BY2E122J	Insulated carbon film	1.2kΩ	±5%	1/4W	
Rz15, 16	PD14BY2E103J	Insulated carbon film	10kΩ	±5%	1/4W	
Rz17, 18	PD14BY2E333J	Insulated carbon film	33kΩ	±5%	1/4W	
Rz19, 20	PD14BY2E153J	Insulated carbon film	15kΩ	±5%	1/4W	
Rz21~24	PD14BY2E822J	Insulated carbon film	8.2kΩ	±5%	1/4W	
Rz25, 26	PD14BY2E472J	Insulated carbon film	4.7kΩ	±5%	1/4W	
Rz27, 28	PD14BY2E154J	Insulated carbon film	150kΩ	±5%	1/4W	
Rz29, 30	PD14BY2E222J	Insulated carbon film	2.2kΩ	±5%	1/4W	
Rz31, 32	PD14BY2E822J	Insulated carbon film	8.2kΩ	±5%	1/4W	
Rz33, 34	PD14BY2E473J	Insulated carbon film	47kΩ	±5%	1/4W	
Rz35, 36	PD14BY2E103J	Insulated carbon film	10kΩ	±5%	1/4W	
TRANSISTOR/PC BOARD						
Qz1, 2		2SC871(E) or (F)				
—	J25-0447-04	PC board				

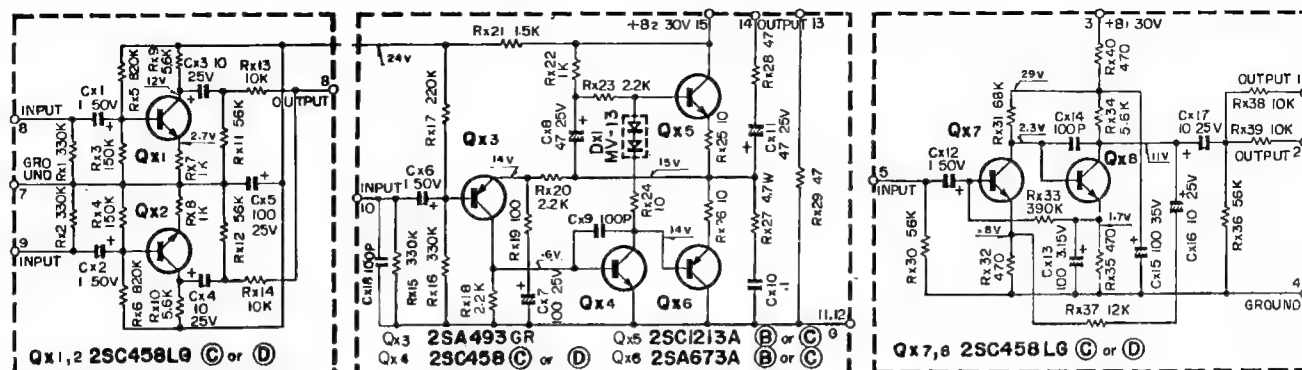




# REVERB AMP (X13-1020-00) SECTION

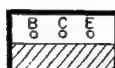
(KR-6170)

## SCHEMATIC DIAGRAM



## BOTTOM VIEW OF TRANSISTOR

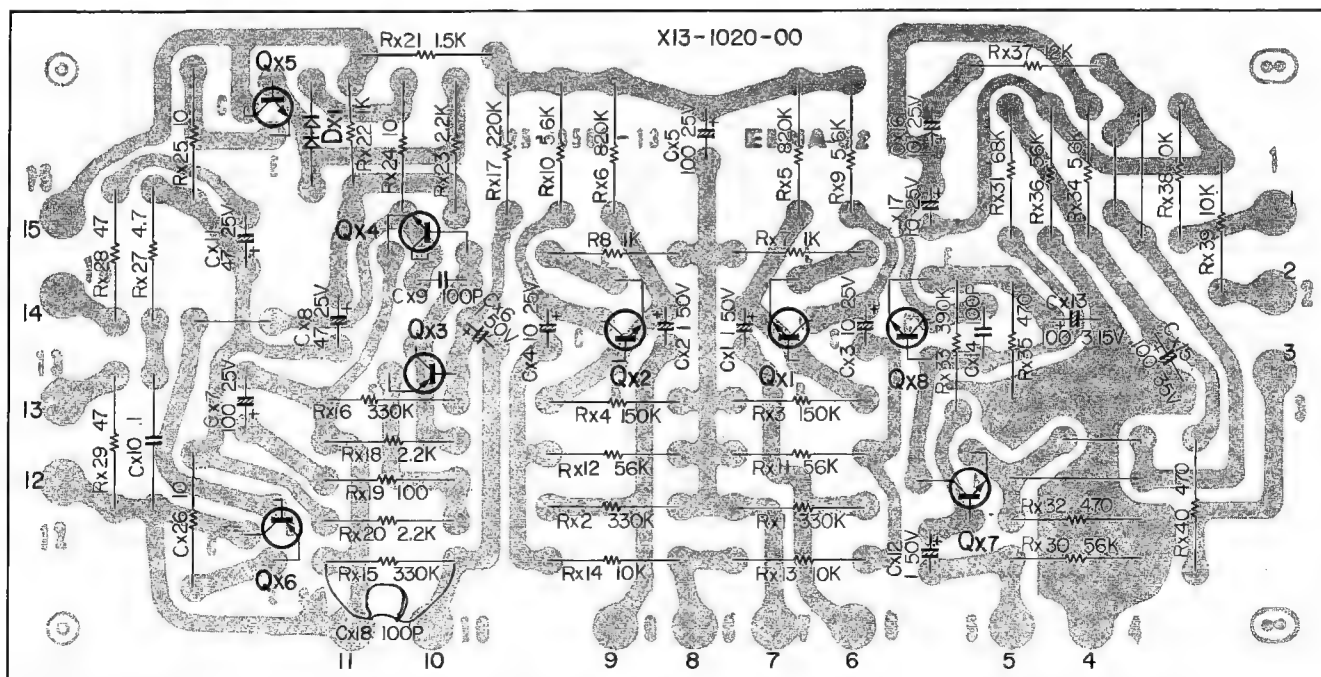
2SA673A  
2SC458  
2SC1213



2SA493



## SEALED CIRCUIT ASSEMBLIES PHANTOM VIEWS



Qx1,2,7,8: 2SC458LG (C) or (D), Qx3: 2SA493GR, Qx4: 2SC458(C) or (D), Qx5: 2SC1213A(B) or (C), Qx6: 2SA673A(B) or (C)  
Dx1: MV-13

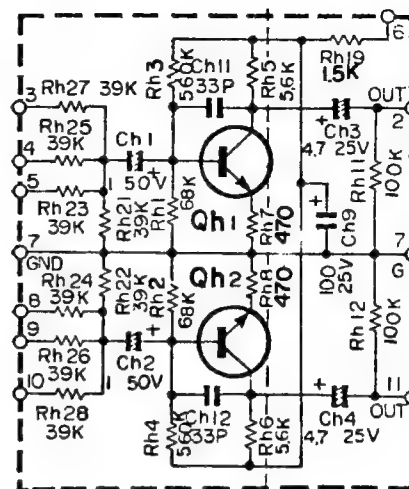
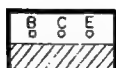
**PARTS DESCRIPTION LIST**

Circuit No.	Parts No.	Description			Remarks
CAPACITOR					
Cx1, 2	CE04W1H010	PC electrolytic	1μF	50WV	
Cx3, 4	CE04W1E100	PC electrolytic	10μF	25WV	
Cx5	CE04W1E101	PC electrolytic	100μF	25WV	
Cx6	CE04W1H010	PC electrolytic	1μF	50WV	
Cx7	CE04W1E101	PC electrolytic	100μF	25WV	
Cx8	CE04W1E470	PC electrolytic	47μF	25WV	
Cx9	CC94SL1H101K	TC ceramic	100pF	±10%	
Cx10	CQ93M1H104M	Mylar	0.1μF	±20%	
Cx11	CE04W1E470	PC electrolytic	47μF	25WV	
Cx12	CE04W1H010	PC electrolytic	1μF	50WV	
Cx13	CE04W0F101	PC electrolytic	100μF	3.15WV	
Cx14	CC94SL1H101K	TC ceramic	100pF	±10%	
Cx15	CE04W1V101	PC electrolytic	100μF	35WV	
Cx16, 17	CE04W1E100	PC electrolytic	10μF	25WV	
Cx18	CC94SL1H101K	TC ceramic	100μF	±10%	
RESISTOR					
Rx1, 2	PD14BY2E334J	Insulated carbon film	330kΩ	±5%	1/4W
Rx3, 4	PD14BY2E154J	Insulated carbon film	150kΩ	±5%	1/4W
Rx5, 6	PD14BY2E824J	Insulated carbon film	820kΩ	±5%	1/4W
Rx7, 8	PD14BY2E102J	Insulated carbon film	1kΩ	±5%	1/4W
Rx9, 10	PD14BY2E562J	Insulated carbon film	5.6kΩ	±5%	1/4W
Rx11, 12	PD14BY2E563J	Insulated carbon film	56kΩ	±5%	1/4W
Rx13, 14	PD14BY2E103J	Insulated carbon film	10kΩ	±5%	1/4W
Rx15, 16	PD14BY2E334J	Insulated carbon film	330kΩ	±5%	1/4W
Rx17	PD14BY2E224J	Insulated carbon film	220kΩ	±5%	1/4W
Rx18	PD14BY2E222J	Insulated carbon film	2.2kΩ	±5%	1/4W
Rx19	PD14BY2E101J	Insulated carbon film	100Ω	±5%	1/4W
Rx20	PD14BY2E222J	Insulated carbon film	2.2kΩ	±5%	1/4W
Rx21	PD14BY2E152J	Insulated carbon film	1.5kΩ	±5%	1/4W
Rx22	PD14BY2E102J	Insulated carbon film	1kΩ	±5%	1/4W
Rx23	PD14BY2E222J	Insulated carbon film	2.2kΩ	±5%	1/4W
Rx24	PD14BY2E100J	Insulated carbon film	10Ω	±5%	1/4W
Rx25, 26	RC05GF2H100K	Carbon composition	10Ω	±10%	1/2W
Rx27	RC05GF2H4R7K	Carbon composition	4.7Ω	±10%	1/2W
Rx28, 29	RC05GF2H470K	Carbon composition	47Ω	±10%	1/2W
Rx30	PD14BY2E563J	Insulated carbon film	56kΩ	±5%	1/4W
Rx31	PD14BY2E683J	Insulated carbon film	68kΩ	±5%	1/4W
Rx32	PD14BY2E471J	Insulated carbon film	470Ω	±5%	1/4W
Rx33	PD14BY2E394J	Insulated carbon film	390kΩ	±5%	1/4W
Rx34	PD14BY2E562J	Insulated carbon film	5.6kΩ	±5%	1/4W
Rx35	PD14BY2E471J	Insulated carbon film	470Ω	±5%	1/4W
Rx36	PD14BY2E563J	Insulated carbon film	56kΩ	±5%	1/4W
Rx37	PD14BY2E123J	Insulated carbon film	12kΩ	±5%	1/4W
Rx38, 39	PD14BY2E103J	Insulated carbon film	10kΩ	±5%	1/4W
Rx40	PD14BY2E471J	Insulated carbon film	470Ω	±5%	1/4W
TRANSISTOR/DIODE/PC BOARD					
Qx1, 2	J25-0562-13	2SC45BLG(C) or (D)			
Qx3		2SA493(GR)			
Qx4		2SC45B(C) or (D)			
Qx5		2SC1213A(B) or (C)			
Qx6		2SA673A(B) or (C)			
Qx7, 8		2SC45BLG(C) or (D)			
Dx1		MV-13			
—		PC board			

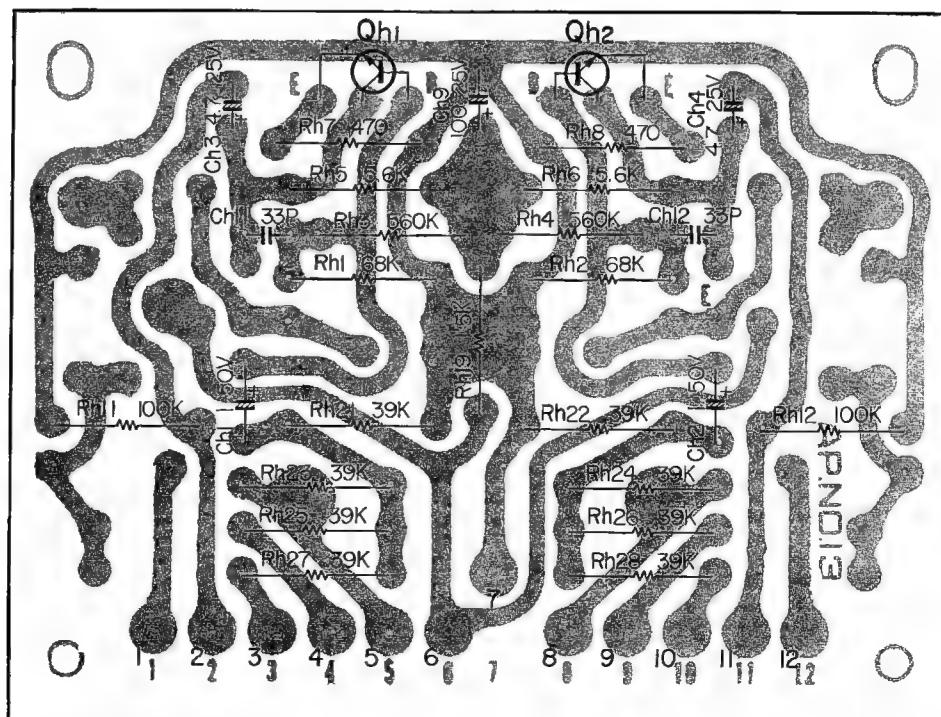
**SCHEMATIC DIAGRAM**

**BOTTOM VIEW OF TRANSISTOR**

2SC458



**SEALED CIRCUIT ASSEMBLIES PHANTOM VIEWS**



Qh1,2: 2SC458LG (C)

**MIXING AMP (X13-1030-11) SECTION****PARTS DESCRIPTION LIST**

Circuit No.	Parts No.	Description				Remarks
CAPACITOR						
Ch1, 2	CE04W1H010	PC electrolytic	1μF	50WV		
Ch3, 4	CE04W1E4R7	PC electrolytic	4.7μF	25WV		
Ch9	CE04W1E101	PC electrolytic	100μF	25WV		
Ch11, 12	CC94SL1H330K	TC ceramic	33pF	±10%		
RESISTOR						
Rh1, 2	PD14BY2E683J	Insulated carbon film	68kΩ	±5%	1/4W	
Rh3, 4	PD14BY2E564J	Insulated carbon film	560kΩ	±5%	1/4W	
Rh5, 6	PD14BY2E562J	Insulated carbon film	5.6kΩ	±5%	1/4W	
Rh7, 8	PD14BY2E471J	Insulated carbon film	470Ω	±5%	1/4W	
Rh11, 12	PD14BY2E104J	Insulated carbon film	100kΩ	±5%	1/4W	
Rh19	PD14BY2E152J	Insulated carbon film	1.5kΩ	±5%	1/4W	
Rh21~28	PD14BY2E393J	Insulated carbon film	39kΩ	±5%	1/4W	
TRANSISTOR/PC BOARD						
Qh1, 2	J25-0077-04	2SC458LG(C)				
—		PC board				

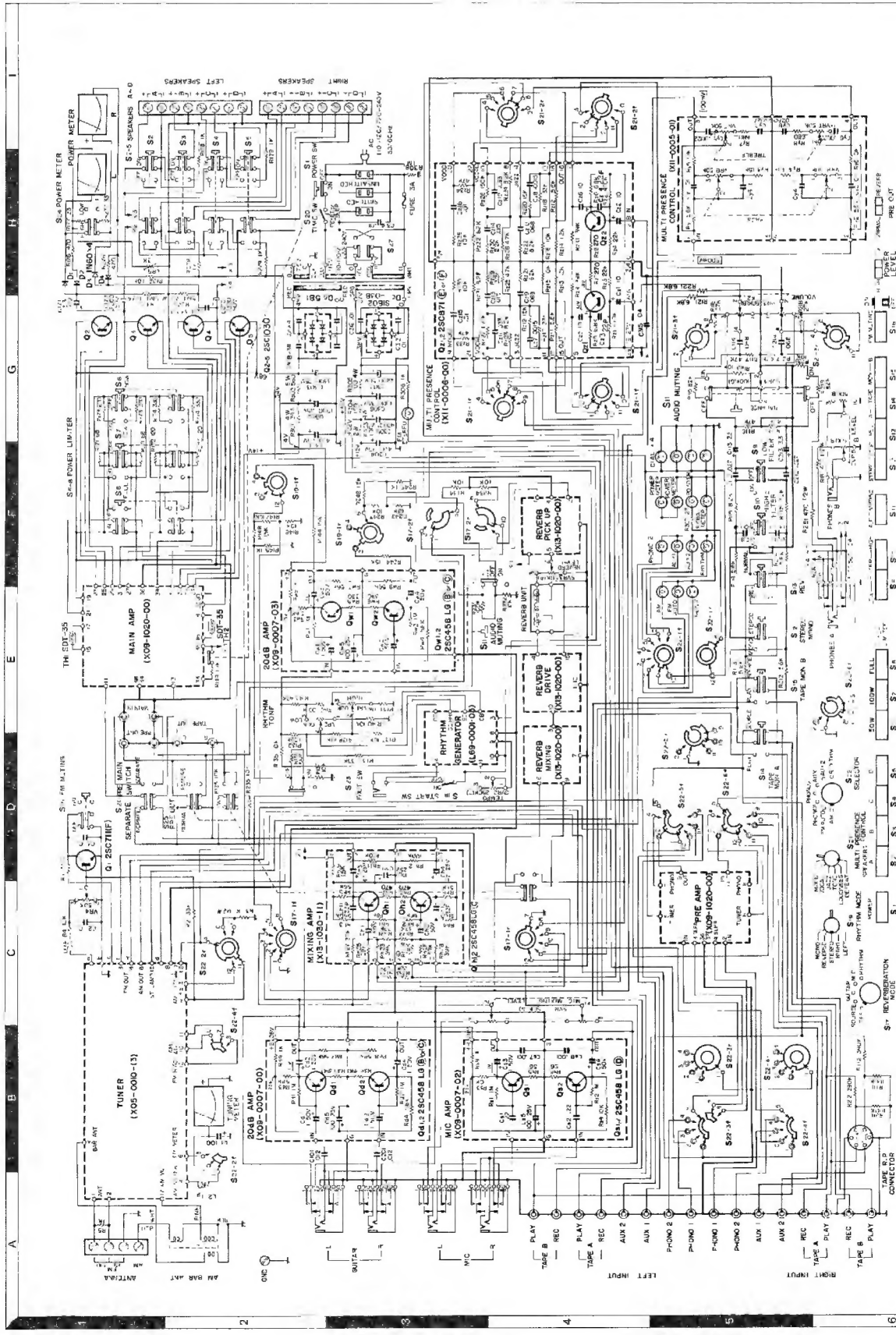
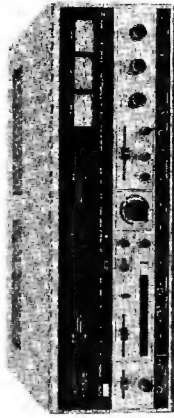




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Manufactured by TRIO ELECTRONICS INC., TOKYO, JAPAN.





## SPECIFICATIONS

[illegible]

IF Stage  
AM TUNER SECTION

Multiple Testing for a Single and Estimating Unknown Parameters

## AMPLIFIER SECTION

### AMPLIFIER SECTION

Each di at 6 chms  
Smith at 4 chms  
Smith at 6 chms

Both ph. at 2' above  
Harmonic Oscillation  
34733 watts

Frequency Response  
High Level: AUA Input

Power Bandwidth (MHz)  
Hum and Noise  
17 - 20,000 Hz

## MIC

**XUV**  
**Gaming**

Speaker Impedance  
Audio Power Control

Galaxy  
Location at 100 Mpc + 100

## ELECTRONIC RHYTHM

**Allythine Medals**

ACCESSORY PARTS

REVERBERATION SECTION

## TIMER SECTION

GENERAL

**Model 8000 Series  
Tape Monitor A**

Tape Monitor **B**  
Audio muting  
MUTE OFF  
CN -50 dB OFF

Pre-qualified in  
the Separate Use of P/a and  
P/a

3 Phospho Level  
516 Level

Al: Quaternary  
B: Quaternary; C: Quaternary and Neogene

Power Consumption  
At full power  
2.60 watts

